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1.11.508

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1.11.555

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1.8 aws-java-sdk-for-aws-iot-1-click-devices

1.11.555

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* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/class-use/ExceptionUtils.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/class-use/EnhancedStringTokenizer.html

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use/DirectoryWalkListener.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/class-use/InterpolationFilterReader.html
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`-classpath 'M:/maven/plexus/plexus-utils/target/checkout/target/classes;U:/Jeder/Maven-2/org/codehaus/plexus/plexus-interpolation/1.0/plexus-interpolation-1.0.jar'
-encoding 'ISO-8859-1'
-protected
-sourcepath 'M:/maven/plexus/plexus-utils/target/checkout/src/main/java'
-author

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1.17 aws-java-sdk-for-aws-service-catalog

1.11.508

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1.18 aws-java-sdk-for-aws-iot-1-click-projects

1.11.555

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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/JsonWriter.java

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#### 1.11.172

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1.31 aws-java-sdk-for-aws-cloud9 1.11.508

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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/LocalIdentityRepository.java
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* /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/jgss/GSSContextKrb5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/jgss/GSSContextKrb5.java
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/jgss/GSSContextKrb5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/ProxySOCKS4.java

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*/

Found in path(s):
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/HostKeyRepository.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/GSSContext.java

1.35 aws-java-sdk-for-amazon-guardduty

1.11.257

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1.41 aws-java-sdk-for-amazon-translate

1.11.508

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1.42 aws-java-sdk-for-amazon-dynamodb

1.11.155

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1.44 aws-java-sdk-for-aws-direct-connect

1.11.172

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1.54 brave-instrumentation-http-adapters

5.13.3

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1.57 aws-java-sdk-for-amazon-quicksight

1.11.555

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1.58 aws-java-sdk-for-amazon-inspector-service 1.11.257

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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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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

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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
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
Open Source Used In imicampaign 6.2.0  508

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

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

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

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The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written by mortbay.org. Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.102 stax-api 4.2.1
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1.104 htrace-core 4.1.0-incubating

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1.105 aws-java-sdk-for-aws-x-ray 1.11.155

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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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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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1.117 hibernate-orm 5.4.32.Final
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# See https://docs.github.com/en/free-pro-team@latest/actions
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name: Hibernate ORM build

on:
push:
  branches:
    - '5.4'
pull_request:
  branches:
    - '5.4'
jobs:
built:
  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

deploy:
  image: docker/landingpage
  runs-on: ubuntu-latest
  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
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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.118 nimbus-langtag 1.5

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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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1.124 kerby-kerb-server 1.0.1
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1.133 aws-java-sdk-for-amazon-lex-model-building 1.11.555

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1.135 oauth-2.0-sdk-with-openid-connect-extensions 9.9.1

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1.11.257

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1.137 cloudwatch-metrics-for-aws-java-sdk

1.11.172

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1.140 aws-java-sdk-for-aws-auto-scaling-plans 1.11.508

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1.11.508

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* /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-l.jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-l.jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-l.jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-l.jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-l.jar/org/objectweb/asm/tree/TypeInsnNode.java
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* /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1- jar/org/objectweb/asm/util/Traceable.java
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  jar/org/objectweb/asm/commons/InstructionAdapter.java

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* java.sun.security.ssl

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iD8DBQFE85cgaq9Frj/C1rIRAamuJAKCFgi4W0UOH8IUUn+SV6PBHFR3BnLgCcDqqCZokttk0bTHfwaa5TtxQbScw=
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iQEcBAEBAgAGBQJQBB4tAAoJEMHbjBmgF91HdcH/2nQDPuPzWFrBifnEolF6JlRUKfjZApZaLDmDmiDz7ucdRL1RDodmx4VlFz+fbKeBYQquZXietIeEghz+tKriK30M12guFKNLdTeQp9h2p3Zu9JU3Ko4y4m84IDWq72HRmh1nRyD61zZFhDGZ/D+69FtgYGOfWet00MAq/HRbXHLPBOY+Jyh/Xy+QRnQTcAQ+tAgOlxs3w+JSx2sGdesYLAJQacLeGh7EzD3F+CkUiwT4c5ub64ldaXSIAVJ1u2OjZBfqlaJ3FA60Ti+13knFNWKpzaEX+SQgMak6hsuatXif6EsVk6sIaskwEgL6+Xk+HYWy23ZQ8BKQRLKOZTw=gaqN
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Version: GnuPG v1.4.3 (GNU/Linux)
iD8DBQFFOniQVhlFus9dGQRAmJmAjwL5yi1oohVQHiCsparvjHMQuwqwCgiZFyLBDVaad1jbJv1EHY901kPcg=
=6rqm
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iD8DBQFD37/4dL6fZr4c+6kRAtsIAJ41tfd3lji4OM6sIMfjT0dYdYTaJbxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
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iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJJc1eooNrr2oN59WZVitJExGjJuVkgCfaKji
6etDJ6Auj0jTuS159hUSWMQ=
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Fax:       +1 800 822 0471

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Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
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<tbody>
<tr>
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<td>12 September 2006</td>
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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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1.170 kerby-kerb-core 1.0.1

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1.173 jaf 1.2.2

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1.11.155

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1.177 curator-framework 4.2.0

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1.179 aws-java-sdk-for-aws-gamelift 1.11.257

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1.180 aws-java-sdk-for-amazon-elasticsearch-service 1.11.172

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1.181 aws-java-sdk-for-aws-budgets 1.11.172

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iD8DBQFE85cgaq9Ffr/ClrIRAamuJAKCFgi4W0UOH8IUn+SV6PBHRF3BnLgCcDqqC
Zokttk0bTHfwaa5TtxQbScw=
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iD8DBQFFoniQJVeIFus9dGQRAmJmAJwL5yi1o0hVQHICsparvjHMQuwqwcGiZFyLBDVaad1bJi1v1EHY901kPcg=
=6rqm
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Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAGBQjQBB4tAAoJEMHhjBmtgF91HDcHI/2nQDPuPztWFrBifmEotLF6Jl
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FNWKpzaeX+SOGm6hsuatXi6EsVk6sIaskweGl6+Xk+HYWy23ZQ8BKQRLKZTw=
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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6fIZr4c+v6kRAtsIAJ41tfd3lj4OMf6sIMflfTODyTdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
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iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNrl2oN59WZVitJExGJjUYkGfaKji
6etDJ6AUj0jTu59hUsWMQ=
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<table>
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<th>Date added</th>
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<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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1.187 jackson-jaxrs-base 2.10.5

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1.188 spring-security 3.1.2

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1.189 aws-java-sdk-for-aws-marketplace-metering-service 1.11.155

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1.190 jackson-dataformat-xml 2.10.0

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1.191 apache-hadoop-hdfs-client 3.3.1

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fb-watchman@2.0.1
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  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
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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
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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
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VendorName: Kyle E. Mitchell
VendorUrl: https://github.com/kemitchell/spdx.js
true-case-path@1.0.3
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VendorName: barsh
VendorUrl: https://github.com/barsh/true-case-path#readme
tunnel-agent@0.4.3
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VendorUrl: http://www.futurealoof.com
tunnel-agent@0.6.0
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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
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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
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VendorName: Mikeal Rogers
VendorUrl: https://github.com/mikeal/watch
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npm@2.14.10
  URL: https://github.com/npm/npm
VendorName: Isaac Z. Schlueter
VendorUrl: https://docs.npmjs.com/
BSD
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VendorUrl: http://blog.izs.me
mute-stream@0.0.4
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VendorUrl: http://blog.izs.me/
osenv@0.0.3
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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

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configstore@1.2.1
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  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
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entities@1.0.0
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entities@1.1.2
  URL: git://github.com/fb55/entities.git
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esprima@2.7.3
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  VendorName: Ariya Hidayat
  VendorUrl: http://esprima.org/
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  VendorUrl: http://esprima.org/
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  VendorName: Ariya Hidayat
  VendorUrl: http://esprima.org/
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  VendorName: max ogden
  VendorUrl: https://github.com/maxogden/extract-zip
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normalize-package-data@2.3.8
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normalize-package-data@2.5.0
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npm-install-checks@1.0.7
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  VendorName: Robert Kowalski
  VendorUrl: https://github.com/npm/npm-install-checks
npm-user-validate@0.1.5
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  VendorName: Ben Newman
  VendorUrl: http://github.com/facebook/regenerator
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  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
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  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
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cryptiles@2.0.5
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hawk@3.1.3
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  VendorName: Eran Hammer
  VendorUrl: http://hueniverse.com
hoek@2.16.3
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printf@0.2.5
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   VendorName: David Worms
   VendorUrl: http://www.adaltas.com/projects/node-printf
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qs@6.7.0
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   VendorUrl: http://github.com/arturadib/shelljs
source-map@0.1.32
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   VendorName: Nick Fitzgerald
source-map@0.1.43
   URL: http://github.com/mozilla/source-map.git
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source-map@0.4.4
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VendorUrl: https://github.com/mozilla/source-map

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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
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VendorName: Naitik Shah
VendorUrl: https://github.com/nshah/nodejs-tmpl
tough-cookie@2.2.2
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VendorName: Jeremy Stashewsky
VendorUrl: https://github.com/SalesforceEng/tough-cookie
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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*
diff@1.4.0
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esprima-fb@12001.1.0-dev-harmony-fb
URL: http://github.com/facebook/esprima.git
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VendorUrl: https://github.com/facebook/esprima/tree/fb-harmony
esprima-fb@15001.1001.0-dev-harmony-fb
URL: http://github.com/facebook/esprima.git
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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
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
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anymatch@1.3.2
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  VendorName: Elan Shanker
  VendorUrl: https://github.com/es128/anymatch
aproba@1.2.0
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  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
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  URL: https://github.com/iarna/are-we-there-yet.git
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  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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  VendorUrl: http://blog.izs.me/
broccoli-viz@2.0.1
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  VendorUrl: https://github.com/stefanpenner/broccoli-viz
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chownr@1.1.3
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  VendorName: Isaac Z. Schlueter
  VendorUrl: http://blog.izs.me/
clean-base-url@1.0.0
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  VendorName: Stefan Penner
  VendorUrl: https://github.com/stefanpenner/clean-base-url#readme
cliui@2.1.0
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cliui@3.2.0
  URL: http://github.com/yargs/cliui.git
  VendorName: Ben Coe
console-control-strings@1.1.0
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  VendorName: Rebecca Turner
  VendorUrl: http://re-becca.org/
d@1.0.1
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  VendorName: Mariusz Nowak
  VendorUrl: http://www.medikoo.com/
dezalgo@1.0.3
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  VendorName: Isaac Z. Schlueter
  VendorUrl: https://github.com/npm/dezalgo
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ember-cli-preprocess-registry@1.1.0
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VendorUrl: https://github.com/ember-cli/ember-cli-string-utils#readme
ember-cli-test-info@1.0.0
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VendorUrl: https://github.com/ember-cli/ember-cli-test-info#readme
ensure-posix-path@1.1.1
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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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VendorUrl: https://github.com/ember-cli/exists-sync#readme
exists-sync@0.0.4
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VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme
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VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
fast-ordered-set@1.0.3
fs-monitor-stack@1.1.1
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VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/fs-monitor-stack#readme

fs-vacuum@1.2.10
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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
VendorUrl: http://blog.izs.me/

fstream-ignore@1.0.5
URL: git://github.com/isaacs/fstream-ignore.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

fstream-npm@1.0.7
URL: https://github.com/npm/fstream-npm.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

fstream@1.0.12
URL: https://github.com/npm/fstream.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

gauge@1.2.7
URL: https://github.com/iarna/gauge
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/gauge

gauge@2.7.4
URL: https://github.com/iarna/gauge
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/gauge

get-caller-file@1.0.3
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VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/get-caller-file#readme

glob-parent@2.0.0
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VendorName: Elan Shanker

glob@4.3.5
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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/

graceful-fs@3.0.12
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

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URL: https://github.com/isaacs/node-graceful-fs

har-schema@1.0.5
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VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-schema

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VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-schema

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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
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URL: https://github.com/chalk/chalk.git
charm@1.0.2
URL: http://github.com/substack/node-charm.git
VendorName: James Halliday
VendorUrl: http://substack.net
clean-css@2.2.23
URL: https://github.com/GoalSmashers/clean-css.git
VendorName: Jakub Pawlowicz
VendorUrl: https://github.com/GoalSmashers/clean-css
cli-color@0.3.3
URL: git://github.com/medikoo/cli-color.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
cli-table@0.3.1
URL: https://github.com/Automattic/cli-table.git
VendorName: Guillermo Rauch
cli@1.0.1
URL: http://github.com/node-js-libs/cli.git
VendorName: Chris O'Hara
VendorUrl: http://github.com/node-js-libs/cli
clone@0.2.0
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
clone@1.0.4
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
clone@2.1.2
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
co@4.6.0
URL: https://github.com/tj/co.git
code-point-at@1.1.0
URL: https://github.com/sindresorhus/code-point-at.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
color-convert@1.9.3
URL: https://github.com/Qix-/color-convert.git
VendorName: Heather Arthur
color-name@1.1.3
URL: git@github.com:dfcreative/color-name.git
VendorName: DY
VendorUrl: https://github.com/dfcreative/color-name
colors@1.0.3
URL: http://github.com/Marak/colors.js.git
VendorName: Marak Squires
VendorUrl: https://github.com/Marak/colors.js
columnify@1.5.4
URL: git://github.com/timoxley/columnify.git
VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/columnify
combined-stream@1.0.8
URL: git://github.com/felixge/node-combined-stream.git
VendorName: Felix Geisendrfer
VendorUrl: https://github.com/felixge/node-combined-stream
commander@2.1.0
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- URL: https://github.com/visionmedia/commander.js.git
  VendorName: TJ Holowaychuk
  commander@2.2.0
- URL: https://github.com/visionmedia/commander.js.git
  VendorName: TJ Holowaychuk
  commander@2.20.3
- URL: https://github.com/tj/commander.js.git
  VendorName: TJ Holowaychuk
  commoner@0.10.8
- URL: git://github.com/benjamn/commoner.git
  VendorName: Ben Newman
  VendorUrl: http://github.com/benjamn/commoner
  compressible@2.0.17
- URL: https://github.com/jshttp/compressible.git
  compression@1.7.4
- URL: https://github.com/expressjs/compression.git
  concat-map@0.0.1
- URL: git://github.com/substack/node-concat-map.git
  VendorName: James Halliday
  VendorUrl: http://substack.net
  concat-stream@1.5.0
- URL: http://github.com/maxogden/concat-stream.git
  VendorName: Max Ogden
  concat-stream@1.6.2
- URL: http://github.com/maxogden/concat-stream.git
  VendorName: Max Ogden
  config-chain@1.1.12
- URL: https://github.com/dominictarr/config-chain.git
  VendorName: Dominic Tarr
  VendorUrl: http://github.com/dominictarr/config-chain
  connect@3.7.0
- URL: https://github.com/senchalabs/connect.git
  VendorName: TJ Holowaychuk
  VendorUrl: http://tjholowaychuk.com
  console-browserify@1.1.0
- URL: git://github.com/Raynos/console-browserify.git
  VendorName: Raynos
  VendorUrl: https://github.com/Raynos/console-browserify
  consolidate@0.13.1
- URL: https://github.com/visionmedia/consolidate.js.git
  VendorName: TJ Holowaychuk
  content-disposition@0.5.3
- URL: https://github.com/jshttp/content-disposition.git
  VendorName: Douglas Christopher Wilson
  content-type@1.0.4
- URL: https://github.com/jshttp/content-type.git
  VendorName: Douglas Christopher Wilson
  convert-source-map@1.7.0
URL: git://github.com/thlorenz/convert-source-map.git
VendorName: Thorsten Lorenz
VendorUrl: https://github.com/thlorenz/convert-source-map
cookie-signature@1.0.6
URL: https://github.com/visionmedia/node-cookie-signature.git
VendorName: TJ Holowaychuk
cookie@0.4.0
URL: https://github.com/jshttp/cookie.git
VendorName: Roman 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
cctype@0.5.3
URL: https://github.com/rmustacc/node-ctype.git
VendorName: Robert Mustacchi
VendorUrl: https://github.com/rmustacc/node-ctype
currently-unhandled@0.4.1
URL: https://github.com/jamestalmage/currently-unhandled.git
VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
URL: git://github.com/medikoo/d.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
dashdash@1.14.1
URL: git://github.com/trentm/node-dashdash.git
VendorName: Trent Mick
VendorUrl: http://trentm.com
date-now@0.1.4
URL: git://github.com/Colingo/date-now.git
VendorName: Raynos
VendorUrl: https://github.com/Colingo/date-now
debug@0.7.4
VendorName: TJ Holowaychuk
debug@1.0.2
VendorName: TJ Holowaychuk
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VendorName: TJ Holowaychuk
debug@2.2.0
VendorName: TJ Holowaychuk
debug@2.6.9
VendorName: TJ Holowaychuk
debug@3.2.6
VendorName: TJ Holowaychuk
debuglog@1.0.1
VendorName: Sam Roberts
decamelize@1.2.0
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
defaults@1.0.3
VendorName: Elijah Insua
defined@1.0.0
VendorName: James Halliday
defs@1.1.1
VendorName: Olov Lassus
delayed-stream@1.0.0
VendorName: Felix Geisendrfer
deflegates@1.0.0
URL: https://github.com/visionmedia/node-delegates.git
depd@1.1.2
URL: https://github.com/dougwilson/nodejs-depd.git
VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: https://github.com/stream-utils/destroy.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
detect-indent@3.0.1
URL: https://github.com/sindresorhus/detect-indent.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
detective@4.7.1
URL: git://github.com/browsersify/detective.git
VendorName: James Halliday
VendorUrl: http://substack.net
did_it_work@0.0.6
VendorName: Toby Ho
dom-serializer@0.2.2
URL: git://github.com/cheeriojs/dom-renderer.git
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: https://github.com/quartzjer/ecc-jsbn.git
VendorName: Jeremie Miller
VendorUrl: https://github.com/quartzjer/ecc-jsbn
editions@1.3.4
URL: https://github.com/bevry/editions.git
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/editions
detector@1.0.0
URL: git://github.com/substack/node-editor.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/node-editor
ee-first@1.1.1
URL: https://github.com/jonathanong/ee-first.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
em-helpers@0.8.0
URL: https://github.com/sreenaths/em-helpers.git
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: https://github.com/sreenaths/em-table.git
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: https://github.com/bmeurant/ember-array-contains-helper
VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
URL: https://github.com/kaliber5/ember-bootstrap
VendorName: Simon Ihmig
VendorUrl: http://kaliber5.github.io/ember-bootstrap/
ember-cli-app-version@1.0.0
URL: https://github.com/embrsherpa/ember-cli-app-version.git
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
VendorUrl: https://github.com/babel/ember-cli-babel
ember-cli-babel@5.2.8
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: https://github.com/rwjblue/ember-cli-content-security-policy
ember-cli-copy-dereference@1.0.0
URL: https://github.com/brocolijs/node-copy-dereference
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: https://github.com/quaertym/ember-cli-dependency-checker.git
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: https://github.com/pangratz/ember-cli-htmlbars-inline-precompile
VendorName: Clemens 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: git://github.com/ember-cli/ember-cli-htmlbars.git
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: https://github.com/ember-cli/ember-cli-htmlbars
ember-cli-ic-ajax@0.2.1
URL: https://github.com/rjackson/ember-cli-ic-ajax
VendorName: Robert Jackson
VendorUrl: https://github.com/rjackson/ember-cli-ic-ajax
ember-cli-inject-live-reload@1.4.0
URL: git://github.com/rwjblue/ember-cli-inject-live-reload.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/ember-cli-inject-live-reload
ember-cli-jquery-ui@0.0.20
URL: https://github.com/gaurav0/ember-cli-jquery-ui
VendorName: Gaurav Munjal
ember-cli-less@1.5.7
URL: https://github.com/gdub22/ember-cli-less
VendorName: Garth Poitras
derby.moment-shim@0.7.3
URL: git://github.com/jasonmit/ember-cli-moment-shim.git
VendorName: Jason Mitchell
VendorUrl: https://github.com/jasonmit/ember-cli-moment-shim
ember-cli-node-assets@0.1.6
URL: https://github.com/dfreeman/ember-cli-node-assets.git
VendorName: Dan Freeman
ember-cli-numeral@0.2.0
URL: http://github.com/josemarluedke/ember-cli-numeral
VendorName: Jay Phelps
VendorUrl: https://github.com/josemarluedke/ember-cli-numeral
ember-cli-qunit@1.2.1
URL: https://github.com/ember-cli/ember-cli-qunit.git
VendorName: Jake Craige
VendorUrl: https://github.com/ember-cli/ember-cli-qunit
ember-cli-release@0.2.8
URL: https://github.com/lytics/ember-cli-release.git
VendorName: Steven Lindberg
ember-cli-sass@7.0.0
URL: git://github.com/aexmachina/ember-cli-sass.git
VendorName: @aexmachina
VendorUrl: https://github.com/aexmachina/ember-cli-sass
ember-cli-sri@1.2.1
URL: https://github.com/jonathanKingston/ember-cli-sri
VendorName: Jonathan Kingston
ember-cli-uglify@1.2.0
URL: https://github.com/ember-cli/ember-cli-uglify.git
ember-cli-version-checker@1.3.1
URL: https://github.com/rwjblue/ember-cli-version-checker.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/ember-cli-version-checker
ember-cli@1.13.14
URL: https://github.com/ember-cli/ember-cli.git
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors
ember-d3@0.1.0
URL: https://github.com/brzpegasus/ember-d3
VendorName: Estelle DeBlois
ember-data@2.1.0
URL: git://github.com/emberjs/data.git
ember-disable-proxy-controllers@1.0.1
URL: https://github.com/cibernox/ember-disable-proxy-controllers
VendorName: Miguel Camba
ember-export-application-global@1.0.5
URL: https://github.com/ember-cli/ember-export-application-global.git
VendorName: Robert Jackson
VendorUrl: https://github.com/ember-cli/ember-export-application-global
ember-lodash@0.0.10
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- ember-qunit@0.4.24
  - URL: https://github.com/rwjblue/ember-qunit.git
  - VendorName: Robert Jackson
  - VendorUrl: https://github.com/rwjblue/ember-qunit#readme

- ember-resolver@2.0.3
  - URL: 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
  - VendorUrl: https://github.com/jmurphyau/ember-truth-helpers

- ember-wormhole@0.3.6
  - URL: https://github.com/yapplabs/ember-wormhole.git
  - VendorName: Yapp Labs
  - VendorUrl: https://github.com/yapplabs/ember-wormhole

- encodeurl@1.0.2
  - URL: https://github.com/pillarjs/encodeurl.git
  - VendorName: Mariusz Nowak
  - VendorUrl: http://www.medikoo.com/

- engine.io-parser@1.2.2
  - URL: https://github.com/Automattic/engine.io-parser.git
  - VendorName: Guillermo Rauch
  - VendorUrl: https://github.com/Automattic/engine.io

- engine.io-pure@1.5.9
  - URL: https://github.com/Automattic/engine.io.git
  - VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
  - VendorUrl: Conversion to ES6 API by Jake Archibald

- 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: https://github.com/medikoo/es6-iterator.git
  - VendorName: Mariusz Nowak
  - VendorUrl: http://www.medikoo.com/

- es6-iterator@2.0.3
  - URL: https://github.com/medikoo/es6-iterator.git
  - VendorName: Mariusz Nowak
  - VendorUrl: http://www.medikoo.com/

- es6-promise@4.0.5
  - URL: https://github.com/stefanpenner/es6-promise.git
  - VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
  - VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
URL: git://github.com/medikoo/es6-symbol.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
es6-weak-map@0.1.4
URL: git://github.com/medikoo/es6-weak-map.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
escape-html@1.0.3
URL: https://github.com/component/escape-html.git
escape-string-regexp@1.0.5
URL: https://github.com/sindresorhus/escape-string-regexp.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
etag@1.8.1
URL: https://github.com/jshttp/etag.git
event-emitter@0.3.5
URL: git://github.com/medikoo/event-emitter.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
eventemitter3@4.0.0
URL: git://github.com/primus/eventemitter3.git
VendorName: Arnout Kazemier
exec-sh@0.2.2
URL: git://github.com:tsertkov/exec-sh.git
VendorName: Aleksandr Tsertkov
exit@0.1.2
URL: git://github.com/cowboy/node-exit.git
VendorName: "Cowboy" Ben Alman
VendorUrl: https://github.com/cowboy/node-exit
expand-brackets@0.1.5
URL: https://github.com/jonschlinkert/expand-brackets.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/expand-brackets
expand-range@1.8.2
URL: https://github.com/jonschlinkert/expand-range.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/expand-range
express@4.17.1
URL: https://github.com/expressjs/express.git
VendorName: TJ Holowaychuk
VendorUrl: http://expressjs.com/
extend@3.0.2
URL: https://github.com/justmoon/node-extend.git
VendorName: Stefan Thomas
VendorUrl: http://www.justmoon.net
extglob@0.3.2
URL: git://github.com/jonschlinkert/extglob.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/extglob
extsprintf@1.3.0
URL: git://github.com/davepacheco/node-extsprintf.git
extsprintf@1.4.0
URL: git://github.com/davepacheco/node-extsprintf.git
fast-deep-equal@2.0.1
URL: git+https://github.com/epoberezkin/fast-deep-equal.git
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
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
VendorUrl: https://github.com/pillarjs/finalhandler
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
github-url-from-git@1.4.0
   URL: https://github.com/visionmedia/node-github-url-from-git.git
   VendorName: TJ Holowaychuk
glob-base@0.3.0
   URL: git://github.com/jonschlinkert/glob-base.git
   VendorName: Jon Schlinkert
   VendorUrl: https://github.com/jonschlinkert/glob-base
globals@6.4.1
   URL: https://github.com/sindresorhus/globals.git
   VendorName: Sindre Sorhus
   VendorUrl: http://sindresorhus.com
globule@1.3.0
   URL: git://github.com/cowboy/node-globule.git
   VendorName: "Cowboy" Ben Alman
   VendorUrl: https://github.com/cowboy/node-globule
growl@1.10.5
   URL: git://github.com/tj/node-growl.git
   VendorName: TJ Holowaychuk
handlebars@3.0.7
   URL: https://github.com/wycats/handlebars.js.git
   VendorName: Yehuda Katz
   VendorUrl: http://www.handlebarsjs.com/
har-validator@5.1.3
   URL: https://github.com/ahmadnassri/node-har-validator.git
   VendorName: Ahmad Nassri
   VendorUrl: https://github.com/ahmadnassri/node-har-validator
has-ansi@0.1.0
   URL: https://github.com/sindresorhus/has-ansi.git
   VendorName: Sindre Sorhus
   VendorUrl: http://sindresorhus.com
has-ansi@2.0.0
   URL: https://github.com/sindresorhus/has-ansi.git
   VendorName: Sindre Sorhus
   VendorUrl: sindresorhus.com
has-binary@0.1.6
   VendorName: Kevin Roark
has-color@0.1.7
   URL: https://github.com/sindresorhus/has-color.git
   VendorName: Sindre Sorhus
   VendorUrl: http://sindresorhus.com
has-cors@1.1.0
   URL: git://github.com/component/has-cors.git
   VendorName: Nathan Rajlich
   VendorUrl: http://n8.io/
has-flag@3.0.0
   URL: https://github.com/sindresorhus/has-flag.git
   VendorName: Sindre Sorhus
   VendorUrl: sindresorhus.com
hasha@2.2.0
  URL: https://github.com/sindresorhus[hasha.git
  VendorName: Sindre Sorhus
  VendorUrl: sindresorhus.com
heimdalljs-logger@0.1.10
  URL: git+https://github.com/heimdalljs/heimdalljs-logger.git
  VendorName: David J. Hamilton
  VendorUrl: https://github.com/heimdalljs/heimdalljs-logger#README.md
heimdalljs@0.2.6
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home-or-tmp@1.0.0
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  VendorUrl: sindresorhus.com
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http-proxy@1.18.0
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http-signature@0.11.0
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VendorUrl: https://github.com/instructure/ic-ajax
iconv-lite@0.4.13
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image-size@0.5.5
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ipaddr.js@1.9.0
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is-arrayish@0.2.1
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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com
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VendorUrl: http://blog.izs.me/
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string.prototype.endsWith@0.2.0
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VendorUrl: https://github.com/jonschlinkert/window-size
wordwrap@0.0.2
URL: git://github.com/substack/node-wordwrap.git
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blob@0.0.4
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
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org.eclipse.jetty.toolchain:jetty-scala

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jaxb-api

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uriparser - RFC 3986 URI parsing library

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inflight@1.0.6
URL: https://github.com/npm/inflight.git
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/inflight
inherits@2.0.4
URL: git://github.com/isaacs/inherits
minimatch@3.0.4
URL: git://github.com/isaacs/minimatch.git
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/
semver@5.3.0
URL: https://github.com/npm/node-semver
wrappy@1.0.2
URL: https://github.com/npm/wrappy
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/wrappy
MIT
angular-loader@1.6.10
URL: https://github.com/angular/angular.js.git
VendorName: Angular Core Team
VendorUrl: http://angularjs.org/
angular-mocks@1.6.10
URL: https://github.com/angular/angular.js.git
VendorName: Angular Core Team
VendorUrl: http://angularjs.org/
angular-route@1.6.10
URL: https://github.com/angular/angular.js.git
VendorName: Angular Core Team
VendorUrl: http://angularjs.org/
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URL: https://github.com/angular/angular.js.git
VendorName: Angular Core Team
VendorUrl: http://angularjs.org/
apidoc-core@0.8.3
URL: https://github.com/apidoc/apidoc-core.git
VendorName: Peter Rottmann
VendorUrl: https://github.com/apidoc/apidoc-core
apidoc@0.17.7
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VendorName: Peter Rottmann
VendorUrl: http://apidocjs.com/
argparse@1.0.10
URL: https://github.com/nodeca/argparse.git
async@2.6.3
URL: https://github.com/caolan/async.git
VendorName: Caolan McMahon
VendorUrl: https://caolan.github.io/async/
balanced-match@1.0.0
URL: git://github.com/juliangruber/balanced-match.git
VendorName: Julian Gruber
VendorUrl: https://juliangruber.github.io/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://juliangruber.github.io/brace-expansion
color-convert@1.9.3
URL: https://github.com/Qix-/color-convert.git
VendorName: Heather Arthur
color-name@1.1.3
URL: git@github.com:dfcreative/color-name.git
VendorName: DY
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color-name@1.1.4
URL: git@github.com:colorjs/color-name.git
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VendorUrl: https://github.com/colorjs/color-name
color-string@1.5.3
URL: https://github.com/Qix-/color-string.git
VendorName: Heather Arthur
color@3.0.0
URL: https://github.com/Qix-/color.git
colornames@1.1.1
URL: git://github.com/timoxley/colornames.git
VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/colornames#readme
colorspace@1.1.2
URL: https://github.com/3rd-Eden/colorspace
VendorName: Arnout Kazemier
VendorUrl: https://github.com/3rd-Eden/colorspace
commander@2.20.3
URL: https://github.com/tj/commander.js.git
VendorName: TJ Holowaychuk
VendorUrl: https://github.com/tj/commander.js
concat-map@0.0.1
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/

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

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

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

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

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

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

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

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

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

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

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

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

process-nextick-args@2.0.1
URL: https://github.com/calvinmetcalf/process-nextick-args.git
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  URL: git://github.com/nodejs/readable-stream
requirejs@2.3.6
  URL: https://github.com/jrburke/r.js.git
  VendorName: James Burke
  VendorUrl: http://github.com/jrburke/r.js
safe-buffer@5.1.2
  URL: git://github.com/feross/safe-buffer.git
  VendorName: Feross Aboukhadijeh
  VendorUrl: https://github.com/feross/safe-buffer
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  VendorName: Feross Aboukhadijeh
  VendorUrl: https://github.com/feross/safe-buffer
safer-buffer@2.1.2
  URL: git+https://github.com/ChALkeR/safer-buffer.git
  VendorName: Nikita Skovoroda
  VendorUrl: https://github.com/ChALkeR
simple-swizzle@0.2.2
  URL: https://github.com/qix-/node-simple-swizzle.git
  VendorName: Qix
  VendorUrl: http://github.com/qix-
sketch-stack-trace@0.0.10
  URL: git://github.com/felixge/node-stack-trace.git
  VendorName: Felix Geisendrffer
  VendorUrl: https://github.com/felixge/node-stack-trace
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text-hex@1.0.0
  URL: https://github.com/3rd-Eden/text-hex
  VendorName: Arnout Kazemier
  VendorUrl: https://github.com/3rd-Eden/text-hex
triple-beam@1.3.0
  URL: git+https://github.com/winstonjs/triple-beam.git
  VendorName: Charlie Robbins
  VendorUrl: https://github.com/winstonjs/triple-beam#readme
uc.micro@1.0.6
  URL: https://github.com/markdown-it/uc.micro.git
universalify@0.1.2
  URL: git+https://github.com/RyanZim/universalify.git
  VendorName: Ryan Zimmerman
  VendorUrl: https://github.com/RyanZim/universalify#readme
util-deprecate@1.0.2
  URL: git://github.com/TooTallNate/util-deprecate.git
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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-ecr:3.0.0
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.android:annotations:jar:4.1.1.4
com.google.api.grpc:proto-google-common-protos:1.12.0
com.google.code.findbugs:jsr305:3.0.2
com.google.code.gson:gson:2.2.4
com.google.errorprone:error_prone_annotations:2.3.3
com.google.j2objc:j2objc-annotations:1.1
com.google.json-simple: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.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava
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
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io.netty:netty:3.10.6.Final
io.netty:netty-all:4.1.61.Final
io.opencensus:opencensus-api:0.24.0
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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
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org.apache.commons:commons-text:1.4
org.apache.commons:commons-validator:1.6
org.apache.curator:curator-client:4.2.0
org.apache.curator:curator-framework:4.2.0
org.apache.curator:curator-recipes:4.2.0
org.apache.geronimo.specs:geronimo-jcache_1.0_spec:1.0-alpha-1
org.apache.hbase:hbase-annotations:1.4.8
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org.apache.hbase:hbase-common:1.4.8
org.apache.hbase:hbase-protocol:1.4.8
org.apache.htrace:htrace-core:3.1.0-incubating
org.apache.htrace:htrace-core4:4.1.0-incubating
org.apache.httpcomponents:httpclient:4.5.13
org.apache.httpcomponents:httpcore:4.4.13
org.apache.kafka:kafka-clients:2.4.0
org.apache.kerby:kerb-admin:1.0.1
org.apache.kerby:kerb-client:1.0.1
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org.apache.kerby:kerb-util:1.0.1
org.apache.kerby:kerb-asn1:1.0.1
org.apache.kerby:kerby-config:1.0.1
org.apache.kerby:kerby-pkix:1.0.1
org.apache.kerby:kerb-util:1.0.1
org.apache.kerby:kerby-xdr:1.0.1
org.apache.kerby:token-provider:1.0.1
org.apache.yetus:audience-annotations:0.5.0
org.apache.zookeeper:zookeeper:3.5.6
org.apache.zookeeper:zookeeper-jute:3.5.6
org.codehaus.jackson:jackson-core-asl:1.9.13
org.codehaus.jackson:jackson-core-jaxrs:1.9.13
org.codehaus.jackson:jackson-mapper-asl:1.9.13
org.codehaus.jackson:jackson-xml:1.9.13
org.codehaus.jettison:jettison-jute:1.1
org.eclipse.jetty:jetty-annotations:9.4.40.v20210413
org.eclipse.jetty:jetty-client:9.4.40.v20210413
org.eclipse.jetty:jetty-http:9.4.40.v20210413
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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

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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
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
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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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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
Eclipse Distribution License 1.0
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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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org.jdom:jdom:1.1

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

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

aopalliance:aopalliance:1.0

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1.192 junit-jupiter-junit-jupiter-engine 5.7.2

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

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

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1.193 aws-java-sdk-for-aws-server-migration

1.11.257

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1.194 aws-java-sdk-for-amazon-elastic-file-system 1.11.257

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1.195 aws-java-sdk-for-amazon-route-53-autonaming 1.11.555

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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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4.1.4

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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/XParameter.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/Iso8601.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/transform/Transformer.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/data/UnfoldingReader.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/util/ResourceLoader.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/PeriodList.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/Encoding.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/UtcOffset.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/ValidationException.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/PartStat.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/util/InetAddressHostInfo.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/AltRep.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/Content.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/PropertyFactoryRegistry.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/StreetAddress.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/PercentComplete.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/Time.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/HostInfo.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/PartStat.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/util/TimeZones.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/transform/package.html
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/overview.html
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/package.html
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/package.html
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/filter/package.html
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/data/package.html
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*/
/**
* $Id$
 *
* Created: [Apr 6, 2004]
 *
* Defines a CLASS iCalendar property.
 *
* <pre>
* 4.8.1.3 Classification
* 
* Property Name: CLASS
* 
* Purpose: This property defines the access classification for a calendar component.
* 
* Value Type: TEXT
* 
* Property Parameters: Non-standard property parameters can be specified on this property.
*
Conformance: The property can be specified once in a "VEVENT", "VTTODO" or "VJOURNAL" calendar component.

Description: An access classification is only one component of the general security system within a calendar application. It provides a method of capturing the scope of the access the calendar owner intends for information within an individual calendar entry. The access classification of an individual iCalendar component is useful when measured along with the other security components of a calendar system (e.g., calendar user authentication, authorization, access rights, access role, etc.). Hence, the semantics of the individual access classifications cannot be completely defined by this memo alone. Additionally, due to the "blind" nature of most exchange processes using this memo, these access classifications cannot serve as an enforcement statement for a system receiving an iCalendar object. Rather, they provide a method for capturing the intention of the calendar owner for the access to the calendar component.

Format Definition: The property is defined by the following notation:

```
class      = "CLASS" classparam "classvalue" CRLF
classparam = *(";" xparam)
classvalue = "PUBLIC" / "PRIVATE" / "CONFIDENTIAL" / iana-token
    / "x-name"
;Default is PUBLIC
```

Example: The following is an example of this property:

```
CLASS:PUBLIC
```

@author Ben Fortuna

Constant for confidential classification.
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Manifest-Version: 1.0
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1615191527618
Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;description=BSD 2-Clause License
Bundle-ManifestVersion: 2
Bundle-Name: zstd-jni
Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64 , darwin/x86_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=x86_64 , darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=aarch64 , freebsd/amd64/libzstd-jni.so;osname=FreeBSD;processor=amd64 , freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386 , linux/aarch64/libzstd-jni.so;osname=Linux;processor=aarch64 , linux/amd64/libzstd-jni.so;osname=Linux;processor=amd64 , linux/arm/libzstd-jni.so;osname=Linux;processor=arm , linux/i386/libzstd-jni.so;osname=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.jar;version="1.4.9.1",com.github.jar
en.jar;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="(&amp;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

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1.209 aws-java-sdk-for-aws-rds-data 1.11.508

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1.222 aws-java-sdk-for-amazon-cloudwatch-events 1.11.172

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1.223 axis2-java 1.7.9

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1.230 aws-java-sdk-for-aws-sts 1.11.172

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1.231 jackson-xc 2.10.5
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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.
1.233 commons-codec 1.15

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

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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1.235 objenesis 3.2
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hadoop-hdfs-project/hadoop-
  hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
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  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/*
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hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*.cc
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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

1.237 apache-poi-ooxml-schemas 3.12
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1.240 aws-java-sdk-for-aws-kms 1.11.155

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1.241 io-swagger-swagger-annotations 1.5.20

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Manifest-Version: 1.0
Bnd-LastModified: 1527173913242
Build-Jdk: 1.8.0_144
Built-By: ron.ratovsky
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-annotations
Bundle-SymbolicName: io.swagger.annotations
Bundle-Version: 1.5.20
1.242 cloudwatch-metrics-for-aws-java-sdk

1.11.155

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1.244 antlr 2.7.7

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/core/LocalVariablesSorter.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/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
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Signature.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedSize.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/GeneratorStrategy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractProcessTask.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBean.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AccessFieldTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/MethodVisitorTee.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/CodeGenerationException.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Block.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/TransformingClassLoader.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/TinyBitSet.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/TransformingClassLoader.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassEmitterTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassEmitterTransformer.java
jar/net/sf/cglib/transform/ClassReaderGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/FieldProvider.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastConstructor.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassesKey.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/util/ParallelSorterEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Converter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/NamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassNameReader.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Callback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Local.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/DuplicatesPredicate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ProcessSwitchCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Transformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Constants.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Customizer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerFactory.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractClassTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/MethodFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/InterceptorFieldFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/DefaultGeneratorStrategy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ProcessArrayCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/FieldVisitorTee.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java
1.249 aws-java-sdk-for-aws-resource-groups-tagging-api 1.11.555

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* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/internal/filter/ArrayQueryFilter.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/spi/JsonProviderFactory.java
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* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
1.251 junit-jupiter-aggregator 5.7.2

1.251.1 Available under license:

```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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_Version 2.0, January 2004_
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1.11.257

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1.254 aws-java-sdk-for-aws-iot 1.11.172

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### 1.255 jackson-core 2.9.0

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

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1.259 aws-java-sdk-for-aws-x-ray 1.11.508

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request@2.74.0
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VendorName: Kyle E. Mitchell
VendorUrl: https://kemitchell.com

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VendorUrl: https://kemitchell.com

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VendorName: Naitik Shah
VendorUrl: https://github.com/daaku/nodejs-walker
websocket-driver@0.7.3
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Apache*
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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
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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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  VendorName: Joyent
  VendorUrl: joyent.com
assert-plus@0.2.0
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  VendorName: Mark Cavage
assert-plus@1.0.0
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ast-types@0.8.12
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  VendorUrl: http://github.com/benjamin/ast-types
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  VendorUrl: http://github.com/benjamin/ast-types
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  VendorName: Stefan Penner
async-promise-queue@1.0.5
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  VendorName: Stefan Penner
async@0.2.10
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  VendorName: Caolan McMahon
async@0.8.0
  URL: https://github.com/caolan/async.git
bluebird@2.11.0
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  VendorUrl: https://github.com/petkaantonov/bluebird
body-parser@1.14.2
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body-parser@1.19.0
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bower-config@0.6.1
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  VendorName: Twitter
  VendorUrl: http://bower.io/
bower-endpoint-parser@0.2.2
  URL: git://github.com/bower/endpoint-parser.git
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bower-shrinkwrap-resolver-ext@0.1.0
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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
  VendorUrl: https://github.com/ember-cli/broccoli-caching-writer.git
broccoli-merge-trees@1.2.4
URL: https://github.com/broccolijs/broccoli-merge-trees
VendorName: Jo Liss
broccoli-merge-trees@2.0.1
URL: https://github.com/broccolijs/broccoli-merge-trees
VendorName: Jo Liss
broccoli-persistent-filter@1.4.6
URL: git+https://github.com/stefanpenner/broccoli-persistent-filter.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/broccoli-persistent-filter#readme
broccoli-plugin@1.1.0
URL: https://github.com/broccolijs/broccoli-plugin
VendorName: Jo Liss
broccoli-plugin@1.3.1
URL: https://github.com/broccolijs/broccoli-plugin
VendorName: Jo Liss
broccoli-sane-watcher@1.1.5
URL: https://github.com/broccolijs/broccoli-sane-watcher.git
VendorName: Kris Selden
VendorUrl: https://github.com/broccolijs/broccoli-sane-watcher
broccoli-sass-source-maps@2.2.0
URL: https://github.com/aexmachina/broccoli-sass-source-maps
VendorName: Jo Liss
broccoli-slow-trees@1.1.0
URL: https://github.com/rwjblue/broccoli-slow-trees.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/broccoli-slow-trees
broccoli-source@1.1.0
URL: https://github.com/broccolijs/broccoli-source
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
URL: https://github.com/ef4/broccoli-sourcemap-concat
VendorName: Edward Faulkner
broccoli-sourcemap-concat@2.0.2
URL: https://github.com/ef4/broccoli-sourcemap-concat
VendorName: Edward Faulkner
broccoli-sri-hash@1.2.2
URL: https://github.com/jonathanKingston/broccoli-sri-hash.git
VendorName: Jonathan Kingston
broccoli-stew@1.6.0
URL: https://github.com/stefanpenner/broccoli-stew.git
VendorName: Stefan Penner & Robert Jackson
VendorUrl: https://github.com/stefanpenner/broccoli-stew
broccoli-uglify-sourcemap@1.5.2
URL: git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git
VendorName: Edward Faulkner
VendorUrl: https://github.com/ember-cli/broccoli-uglify-sourcemap#readme
broccoli-unwatched-tree@0.1.3
URL: https://github.com/rjackson/broccoli-unwatched-tree.git
VendorName: Robert Jackson
broccoli-writer@0.1.1
URL: https://github.com/joliss/broccoli-writer
VendorName: Jo Liss
broccoli@0.16.8
URL: https://github.com/broccolijs/broccoli
VendorName: Jo Liss
VendorUrl: https://github.com/broccolijs/broccoli
buffer-from@1.1.1
URL: https://github.com/LinusU/buffer-from.git
builtin-modules@1.1.1
URL: https://github.com/sindresorhus/builtin-modules.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
builtins@0.0.7
URL: https://github.com/juliangruber/builtin.git
builtins@1.0.3
URL: https://github.com/juliangruber/builtin.git
bytes@2.2.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
bytes@2.4.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
bytes@3.0.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
bytes@3.1.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
camelcase-keys@2.1.0
URL: https://github.com/sindresorhus/camelcase-keys.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
camelcase@1.2.1
URL: https://github.com/sindresorhus/camelcase.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
camelcase@2.1.1
URL: https://github.com/sindresorhus/camelcase.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
camelcase@3.0.0
can-symlink@1.0.0
URL: https://github.com/raytiley/can-symlink
VendorName: raytiley

cardinal@0.5.0
URL: git://github.com/thlorenz/cardinal.git
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

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

chalk@0.4.0
URL: https://github.com/sindresorhus/chalk.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

chalk@0.5.1
URL: https://github.com/sindresorhus/chalk.git

chalk@1.1.0
URL: https://github.com/chalk/chalk.git

chalk@1.1.3
URL: https://github.com/chalk/chalk.git

chalk@2.4.2
URL: https://github.com/chalk/chalk.git

charm@1.0.2
URL: http://github.com/substack/node-charm.git
VendorName: James Halliday
VendorUrl: http://substack.net

clean-css@2.2.23
URL: https://github.com/GoalSmashers/clean-css.git
VendorName: Jakub Pawlowicz
VendorUrl: https://github.com/GoalSmashers/clean-css

cli-color@0.3.3
URL: git://github.com/medikoo/cli-color.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

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

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

clone@0.2.0
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/  
clone@1.0.4  
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VendorName: Paul Vorbach  
VendorUrl: http://paul.vorba.ch/  
clone@2.1.2  
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VendorUrl: http://paul.vorba.ch/  
co@4.6.0  
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VendorUrl: http://paul.vorba.ch/  
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  
VendorUrl: https://github.com/Qix-/color-convert.git  
color-name@1.1.3  
URL: git@github.com:dfcreative/color-name.git  
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VendorUrl: https://github.com/dfcreative/color-name  
colors@1.0.3  
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VendorName: Marak Squires  
VendorUrl: https://github.com/Marak/colors.js  
columnify@1.5.4  
URL: git://github.com/timoxley/columnify.git  
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VendorUrl: https://github.com/timoxley/columnify  
combined-stream@1.0.8  
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VendorName: Felix Geisendrfer  
VendorUrl: https://github.com/felixge/node-combined-stream  
commander@2.1.0  
URL: https://github.com/visionmedia/commander.js.git  
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URL: https://github.com/tj/commander.js.git  
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URL: git://github.com/benjamn/commoner.git  
VendorName: Ben Newman  
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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
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config-chain@1.1.12
URL: https://github.com/dominictarr/config-chain.git
VendorName: Dominic Tarr
VendorUrl: http://github.com/dominictarr/config-chain
connect@3.7.0
URL: https://github.com/senchalabs/connect.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
console-browserify@1.1.0
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consolidate@0.13.1
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content-disposition@0.5.3
URL: https://github.com/jshttp/content-disposition.git
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content-type@1.0.4
URL: https://github.com/jshttp/content-type.git
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convert-source-map@1.7.0
URL: git://github.com/thlorenz/convert-source-map.git
VendorName: Thorsten Lorenz
VendorUrl: https://github.com/thlorenz/convert-source-map
cookie-signature@1.0.6
URL: https://github.com/visionmedia/node-cookie-signature.git
VendorName: TJ Holowaychuk
cookie@0.4.0
URL: https://github.com/jshttp/cookie.git
VendorName: Roman Shtylman
copy-dereference@1.0.0
URL: https://github.com/broccolijs/node-copy-dereference
VendorName: Jo Liss
core-js@1.2.7
URL: https://github.com/zloirock/core-js.git
core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object
core-util-is@1.0.2
URL: git://github.com/isaacs/core-util-is
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
cross-spawn-async@2.2.5
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cross-spawn@3.0.1
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VendorUrl: https://github.com/rmustacc/node-ctype
currently-unhandled@0.4.1
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VendorUrl: github.com/jamestalmage
d@0.1.1
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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
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VendorName: Raynos
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debug@0.7.4
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debug@3.2.6
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debuglog@1.0.1
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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
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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
depd@1.1.2
  url: https://github.com/dougwilson/nodejs-depd.git
vendorName: Douglas Christopher Wilson
destroy@1.0.4
  url: https://github.com/stream-utils/destroy.git
vendorName: Jonathan Ong
vendorUrl: http://jongleberry.com
detect-indent@3.0.1
  url: https://github.com/sindresorhus/detect-indent.git
vendorName: Sindre Sorhus
vendorUrl: http://sindresorhus.com
detective@4.7.1
URL: git://github.com/browserify/detective.git
VendorName: James Halliday
VendorUrl: http://substack.net
did_it_work@0.0.6
VendorName: Toby Ho
dom-serializer@0.2.2
URL: git://github.com/cheeriojs/dom-renderer.git
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: https://github.com/quartzjer/ecc-jsbn.git
VendorName: Jeremie Miller
VendorUrl: https://github.com/quartzjer/ecc-jsbn
editions@1.3.4
URL: https://github.com/bevry/editions.git
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/editions
editor@1.0.0
URL: git://github.com/substack/node-editor.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/node-editor
ee-first@1.1.1
URL: https://github.com/jonathanong/ee-first.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
em-helpers@0.8.0
URL: https://github.com/sreenaths/em-helpers.git
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: https://github.com/sreenaths/em-table.git
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: https://github.com/bmeurant/ember-array-contains-helper
VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
URL: https://github.com/kaliber5/ember-bootstrap
VendorName: Simon Ihmig
VendorUrl: http://kaliber5.github.io/ember-bootstrap/
ember-cli-app-version@1.0.0
URL: https://github.com/embersherpa/ember-cli-app-version.git
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
VendorUrl: https://github.com/babel/ember-cli-babel
ember-cli-babel@5.2.8
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
ember-cli-copy-dereference@1.0.0
URL: https://github.com/broccolijs/node-copy-dereference
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: https://github.com/quaertym/ember-cli-dependency-checker.git
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: https://github.com/pangratz/ember-cli-htmlbars-inline-precompile
VendorName: Clemens 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: git@github.com:ember-cli/ember-cli-htmlbars.git
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: https://github.com/ember-cli/ember-cli-htmlbars
ember-cli-ic-ajax@0.2.1
URL: https://github.com/rjackson/ember-cli-ic-ajax
VendorName: Robert Jackson
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
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
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ember-d3@0.1.0
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VendorName: Estelle DeBlois
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ember-lodash@0.0.10
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VendorUrl: https://github.com/ember-cli/ember-router-generator

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VendorUrl: https://mths.be/regexpu
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URL: https://github.com/jonschlinkert/repeat-element.git
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VendorUrl: https://github.com/jonschlinkert/repeat-element
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VendorUrl: sindresorhus.com
repeating@2.0.1
URL: https://github.com/sindresorhus/repeating.git
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VendorUrl: sindresorhus.com
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VendorName: IndigoUnited
VendorUrl: http://indigounited.com
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VendorName: Troy Goode
VendorUrl: https://github.com/troygoode/node-require-directory/
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VendorName: Arnout Kazemier
VendorUrl: https://github.com/unshiftio/requires-port
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resolve@1.14.1
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VendorName: James Halliday
VendorUrl: http://substack.net
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VendorName: Tim Koschtkzi
VendorUrl: https://github.com/tim-kos/node-retry
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VendorUrl: https://github.com/jonschlinkert/right-align
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
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VendorUrl: https://github.com/feross/safe-buffer
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VendorUrl: https://github.com/ChALkeR
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VendorName: Kevin Brown
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VendorName: TJ Holowaychuk
serve-static@1.14.1
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shebang-regex@1.0.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
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VendorUrl: http://sindresorhus.com
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spdx-expression-parse@3.0.0
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VendorName: Kyle E. Mitchell
VendorUrl: http://kemitchell.com
sri-toolbox@0.2.0
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sshpk@1.16.1
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stable@0.1.8
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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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VendorName: Michael Hart
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strip-ansi@0.1.1
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textextensions@2.6.0
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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com

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VendorName: Olov Lassus

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uuid@2.0.3
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VendorName: Pat O'Callaghan

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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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VendorName: Michael de Wit

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VendorName: Alex Navasardyan
VendorUrl: http://twokul.io

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VendorName: Alex Ford
VendorUrl: http://CodeTunnel.com

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VendorUrl: http://CodeTunnel.com

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VendorUrl: http://yargs.js.org/

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

MIT*

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VendorName: Raynos

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VendorName: Mark Cavage

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VendorName: "Cowboy" Ben Alman
VendorUrl: http://github.com/cowboy/javascript-sync-async-foreach

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VendorName: Douglas Crockford
VendorUrl: http://crockford.com/
SEE LICENSE IN LICENSE
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VendorName: Eran Hammer
VendorUrl: http://hueniverse.com
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VendorName: TweetNaCl-js contributors
VendorUrl: https://tweetnacl.js.org/

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   VendorName: Domenic Denicola
   VendorUrl: http://domenic.me/
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is-integer@1.0.7
   URL: git@github.com:parshap/js-is-integer
   VendorName: Parsha Pourkhomami

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JUnit

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uriparser - RFC 3986 URI parsing library

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

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

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
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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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VendorName: Angular Core Team
VendorUrl: http://angularjs.org/

angular-mocks@1.6.10
URL: https://github.com/angular/angular.js.git
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VendorUrl: 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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VendorUrl: https://caolan.github.io/async/

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URL: git://github.com/juliangruber/balanced-match.git
VendorName: Julian Gruber
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VendorUrl: http://getbootstrap.com/

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VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite
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URL: git+https://github.com/ChALkeR/safer-buffer.git
VendorName: Nikita Skovoroda
VendorUrl: https://github.com/ChALkeR

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VendorUrl: http://github.com/qix-

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VendorUrl: https://github.com/felixge/node-stack-trace

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VendorName: Arnout Kazemier
VendorUrl: https://github.com/3rd-Eden/text-hex

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VendorName: Charlie Robbins
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URL: https://github.com/markdown-it/uc.micro.git

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VendorName: Ryan Zimmerman
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URL: git://github.com/TooTallNate/util-deprecate.git
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VendorUrl: https://github.com/TooTallNate/util-deprecate

winston-transport@4.3.0
URL: git@github.com:winstonjs/winston-transport.git
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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

com.aliyun:aliyun-java-sdk-core:3.4.0
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
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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.android:annotations:jar:4.1.1.4
com.google.api.grpc:proto-google-common-protos:1.12.0
com.google.code.findbugs:jsr305:3.0.2
com.google.code.gson:gson:2.2.4
com.google.errorprone:error_prone_annotations:2.3.3
com.google.j2objc:j2objc-annotations:1.1
com.google.j2objc:j2objc-annotations:1.1
com.google.j2objc:j2objc-annotations:1.1
com.google.guava:failureaccess:1.0
com.google.guava:guava:27.0-jre
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com.google.guava:guava:30.1.1-jre
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com.google.guava:guava:failureaccess:1.0
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
org.apache.hbase:hbase-client:1.4.8
org.apache.hbase:hbase-common:1.4.8
org.apache.hbase:hbase-protocol:1.4.8
org.apache.htrace:htrace-core:3.1.0-incubating
org.apache.htrace:htrace-core4:4.1.0-incubating
org.apache.httpcomponents:httpclient:4.5.13
org.apache.httpcomponents:httpcore:4.4.13
org.apache.kafka:kafka-clients:2.4.0
org.apache.kerby:kerb-admin:1.0.1
org.apache.kerby:kerb-client:1.0.1
org.apache.kerby:kerb-common:1.0.1
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org.apache.kerby:kerb-crypto:1.0.1
org.apache.kerby:kerb-identity:1.0.1
org.apache.kerby:kerb-server:1.0.1
org.apache.kerby:kerb-simplekdc:1.0.1
org.apache.kerby:kerb-utility:1.0.1
org.apache.kerby:kerby-asn1:1.0.1
org.apache.kerby:kerb-configuration:1.0.1
org.apache.kerby:kerb-pkix:1.0.1
org.apache.kerby:kerb-utility:1.0.1
org.apache.kerby:kerb-xdr:1.0.1
org.apache.kerby:token-provider:1.0.1
org.apache.yetus:audience-annotations:0.5.0
org.apache.zookeeper:zookeeper:3.5.6
org.apache.zookeeper:zookeeper-jute:3.5.6
org.codehaus.jackson:jackson-core-asl:1.9.13
org.codehaus.jackson:jackson-jaxrs:1.9.13
org.codehaus.jackson:jackson-mapper-asl:1.9.13
org.codehaus.jackson:jackson-xc:1.9.13
org.eclipse.jetty:jetty-util:9.4.40.v20210413
org.eclipse.jetty:jetty-util:9.4.40.v20210413
org.eclipse.jetty:jetty-util:9.4.40.v20210413
org.eclipse.jetty:jetty-server:9.4.40.v20210413
org.eclipse.jetty:jetty-server:9.4.40.v20210413
org.eclipse.jetty:jetty-util:9.4.40.v20210413
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org.eclipse.jetty:jetty-util:9.4.40.v20210413
org.eclipse.jetty:jetty-websocket:9.4.40.v20210413
org.eclipse.jetty:jetty-websocket:9.4.40.v20210413
org.eclipse.jetty:jetty-websocket:9.4.40.v20210413
org.eclipse.jetty:jetty-websocket:9.4.40.v20210413
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**BSD 2-Clause**

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

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

**BSD 3-Clause**

```
hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/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
```
MIT License

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/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:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
org.slf4j:slf4j-log4j12:1.7.30

CDDL 1.1 + GPLv2 with classpath exception
-----------------------------------------

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

Eclipse Public License 1.0
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junit:junit:4.13.1

Eclipse Distribution License 1.0
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jakarta.xml.bind:jakarta.xml.bind-api:2.3.2

HSQL License
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org.hsqldb:hsqldb:2.3.4

JDOM License
-----------

org.jdom:jdom:1.1
Boost Software License, Version 1.0
-------------
asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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

aopalliance:aopalliance:1.0

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1.265 aws-java-sdk-for-amazon-mechanical-turk-requester 1.11.508

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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoFunctions.kt
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/function/package-info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/concurrent/package-info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxExtensions.kt
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/package-info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoExtensions.kt
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Traces.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSwitchOnFirst.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoMetrics.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoMetricsFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/ReactorThreadFactory.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/SchedulerMetricDecorator.java
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reactor.core.scheduler.ReactorBlockHoundIntegration

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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSubscribeOn.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSkipLast.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/Loggers.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxIndexFuseable.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoRunnable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxOnBackpressureBuffer.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ContextN.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Disposable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/GroupedFlux.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinkManySerialized.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxConcatMapNoPrefetch.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/ContextView.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ImmutableRetrySignal.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3.4.9-sources-jar/reactor/core/publisher/FluxWindowTimeout.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3.4.9-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3.4.9-sources-jar/reactor/core/publisher/ParallelThen.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3.4.9-sources-jar/reactor/core/scheduler/BoundedElasticScheduler.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3.4.9-sources-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3.4.9-sources-jar/reactor/util/context/CoreContext.java
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* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.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/CoreOAuthSignatureMethodFactory.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/config/ConsumerServiceBeanDefinitionParser.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/BaseConsumerDetails.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/config/ConsumerServiceBeanDefinitionParser.java

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jar/org/springframework/security/oauth/common/signature/RSA_SHA1SignatureMethod.java
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jar/org/springframework/security/oauth/provider/attributes/ConsumerKeysAllowed.java
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* /opt/cola/permit/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-
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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/ResourceSpecificConsumerDetails.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/provider/verifier/VerificationFailedException.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/config/OAuthSecurityNamespaceHandler.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/consumer/protectedResourceDetails/ProtectedResourceDetails.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/consumer/nonce/UUIDNonceFactory.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/common/signature/VerificationFailedException.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/common/signature/OAuthSignatureMethodFactory.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/common/OAuthCodec.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/common/signature/InMemoryNonceServices.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources.jar/org/springframework/security/oauth/provider/ExtraTrustConsumerDetails.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/nonce/NonceAlreadyUsedException.java

1.280 aws-java-sdk-for-aws-resource-groups-tagging-api 1.11.155

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

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

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1.11.555

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1.294 aws-java-sdk-for-aws-resource-groups

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1.11.555

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1.296 aws-java-sdk-for-the-amazon-ec2-container-registry 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 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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1.302 jackson-core 2.10.1

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1.303 aws-java-sdk-for-aws-direct-connect

1.11.508

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* org.ow2.asm:asm-commons
* org.ow2.asm:asm

The following dependencies are ASL2 licensed.

* org.apache.taglibs:taglibs-standard-spec
* org.apache.taglibs:taglibs-standard-impl
The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

* org.mortbay.jasper:apache-jsp
* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
* org.mortbay.jasper:apache-el
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit: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

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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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
------

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

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas
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Full name: Nicanor Gonzalez
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Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Corporation name: Simula Labs, Inc.
Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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Date:

Signature:
Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
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Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Version: GnuPG v1.4.7 (Darwin)

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  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
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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
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
Open Source Used In imicampaign 6.2.0  2217

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
VendorUrl: https://github.com/npm/npm-user-validate
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
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cpr@0.4.2
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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  
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qs@5.1.0  
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qs@5.2.0  
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VendorName: Artur Adib  
VendorUrl: http://github.com/arturadib/shelljs  
sourcemap@0.1.32  
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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
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abbrev@1.1.1
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anymatch@1.3.2
URL: https://github.com/es128/anymatch
VendorName: Elan Shanker
VendorUrl: https://github.com/es128/anymatch
aproba@1.2.0
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VendorName: Rebecca Turner
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are-we-there-yet@1.0.6
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async-some@1.0.2
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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
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chmodr@1.0.2
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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
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VendorUrl: https://github.com/stefanpenner/clean-base-url#readme
cliui@2.1.0
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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
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VendorName: ember-cli Contributors
VendorUrl: https://github.com/ember-cli/ember-cli/get-dependency-depth#readme
ember-cli-is-package-missing@1.0.0
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  VendorUrl: http://blog.izs.me/
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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  VendorUrl: https://github.com/iarna/gauge
  gauge@2.7.4
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  VendorName: Rebecca Turner
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get-caller-file@1.0.3
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  VendorUrl: https://github.com/stefanpenner/get-caller-file#readme
glob-parent@2.0.0
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glob@4.3.5
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  VendorUrl: http://blog.izs.me/
  glob@5.0.13
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minimatch@2.0.10
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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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  VendorUrl: https://github.com/addaleax/natives#readme
node-modules-path@1.0.2
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  VendorUrl: https://github.com/npm/normalize-git-url
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npm-normalize-package-bin@1.0.1
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  VendorUrl: https://izs.me
npm-package-arg@4.0.2
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  VendorUrl: https://github.com/npm/npm-package-arg
npm-package-arg@4.2.1
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npm-registry-client@7.0.9
URL: https://github.com/npm/npm-registry-client.git
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npmlog@1.2.1
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VendorUrl: http://blog.izs.me/
npmlog@2.0.4
URL: https://github.com/npm/npmlog.git
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VendorUrl: http://blog.izs.me/
npmlog@4.1.2
URL: https://github.com/npm/npmlog.git
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URL: git://github.com/isaacs/once
VendorName: Isaac Z. Schlueter
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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
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VendorName: Isaac Z. Schlueter
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proto-list@1.2.4
URL: https://github.com/isaacs/proto-list
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pseudomap@1.0.2
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read-installed@4.0.3
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read-package-json@2.0.13
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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
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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
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rimraf@2.7.1
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VendorUrl: http://blog.izs.me/
semver@4.3.6
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semver@5.0.3
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semver@5.3.0
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set-blocking@2.0.0
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setprototypeof@1.1.1
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    VendorName: Wes Todd
    VendorUrl: https://github.com/wesleytodd/setprototypeof
sigmund@1.0.1
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    VendorName: Isaac Z. Schlueter
    VendorUrl: http://blog.izs.me/
signal-exit@3.0.2
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silent-error@1.1.1
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slide@1.1.6
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tree-sync@1.4.0
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type@1.2.0
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type@2.0.0
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uid-number@0.0.6
ansi-styles@1.1.0
URL: https://github.com/sindresorhus/ansi-styles.git
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VendorUrl: http://sindresorhus.com
ansi-styles@2.2.1
URL: https://github.com/chalk/ansi-styles.git
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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
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
VendorUrl: https://github.com/mcavage/node-asn1.git
asn1@0.2.4
  URL: git://github.com/joyent/node-asn1.git
VendorName: Joyent
VendorUrl: https://github.com/joyent/node-asn1.git
assert-plus@0.2.0
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VendorUrl: https://github.com/mcavage/node-assert-plus.git
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VendorUrl: https://github.com/mcavage/node-assert-plus.git
ast-traverse@0.1.1
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VendorName: Olov Lassus
VendorUrl: https://github.com/olov/ast-traverse.git
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VendorName: Ben Newman
VendorUrl: https://github.com/benjamn/ast-types
ast-types@0.8.15
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VendorName: Ben Newman
VendorUrl: https://github.com/benjamn/ast-types
ast-types@0.9.6
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VendorUrl: https://github.com/benjamn/ast-types
async-disk-cache@1.3.5
babel-plugin-property-literals@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-property-literals.git
babel-plugin-proto-to-assign@1.0.4
URL: https://github.com/babel-plugins/babel-plugin-proto-to-assign.git
babel-plugin-react-constant-elements@1.0.3
URL: https://github.com/babel-plugins/babel-plugin-react-constant-elements.git
babel-plugin-react-display-name@1.0.3
URL: https://github.com/babel-plugins/babel-plugin-react-display-name.git
babel-plugin-remove-console@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-remove-console.git
babel-plugin-remove-debugger@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-remove-debugger.git
babel-plugin-runtime@1.0.7
URL: https://github.com/babel-plugins/babel-plugin-runtime.git
babel-plugin-undeclared-variables-check@1.0.2
URL: https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git
babel-plugin-undefined-to-void@1.1.6
URL: https://github.com/babel-plugins/babel-plugin-undefined-to-void.git
babylon@5.8.38
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/
backbone@1.4.0
URL: https://github.com/jashkenas/backbone.git
VendorName: Jeremy Ashkenas
backo2@1.0.2
URL: https://github.com/mokesmokes/backo.git
balanced-match@1.0.0
URL: git://github.com/juliangruber/balanced-match.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/balanced-match
base64-arraybuffer@0.1.2
URL: https://github.com/niklasvh/base64-arraybuffer
VendorName: Niklas von Hertzen
VendorUrl: https://github.com/niklasvh/base64-arraybuffer
basic-auth@2.0.1
URL: https://github.com/jshttp/basic-auth.git
benchmark@1.0.0
URL: https://github.com/bestiejs/benchmark.js.git
VendorName: Mathias Bynens
VendorUrl: http://benchmarkjs.com/
better-assert@1.0.2
URL: https://github.com/visionmedia/better-assert.git
VendorName: TJ Holowaychuk
binaryextensions@2.2.0
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bl@1.0.3
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bl@1.1.2
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  VendorUrl: https://github.com/rvagg/bl
blank-object@1.0.2
  URL: git+https://github.com/stefanpenner/blank-object.git
  VendorName: Stefan Penner
  VendorUrl: https://github.com/stefanpenner/blank-object#readme
bluebird@2.11.0
  URL: git://github.com/petkaantonov/bluebird.git
  VendorName: Petka Antonov
  VendorUrl: https://github.com/petkaantonov/bluebird
body-parser@1.14.2
  URL: https://github.com/expressjs/body-parser.git
body-parser@1.19.0
  URL: https://github.com/expressjs/body-parser.git
bower-config@0.6.1
  URL: git://github.com/bower/config.git
  VendorName: Twitter
  VendorUrl: http://bower.io/
bower-endpoint-parser@0.2.2
  URL: git://github.com/bower/endpoint-parser.git
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bower-shrinkwrap-resolver-ext@0.1.0
  URL: https://github.com/sreenaths/bower-shrinkwrap-resolver-ext
bower@1.8.8
  URL: https://github.com/bower/bower.git
  VendorName: Twitter
  VendorUrl: http://bower.io/
brace-expansion@1.1.11
  URL: git://github.com/juliangruber/brace-expansion.git
  VendorName: Julian Gruber
  VendorUrl: https://github.com/juliangruber/brace-expansion
braces@1.8.5
  URL: https://github.com/jonschlinkert/braces.git
  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/braces
breakable@1.0.0
  URL: https://github.com/olov/breakable.git
  VendorName: Olov Lassus
broker-asset-rev@2.4.2
  URL: git://github.com/rickharrison/broccoli-asset-rev
  VendorName: Rick Harrison
  VendorUrl: https://github.com/rickharrison/broccoli-asset-rev
broker-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-sinkHelpers
VendorName: Jonathan Kingston
broccoli-stew@1.6.0
  URL: https://github.com/stefanpenner/broccoli-stew.git
VendorName: Stefan Penner & Robert Jackson
  VendorUrl: https://github.com/stefanpenner/broccoli-stew
broccoli-uglify-sourcemap@1.5.2
  URL: git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git
VendorName: Edward Faulkner
  VendorUrl: https://github.com/ember-cli/broccoli-uglify-sourcemap#readme
broccoli-unwatched-tree@0.1.3
  URL: https://github.com/rjackson/broccoli-unwatched-tree.git
VendorName: Robert Jackson
broccoli-writer@0.1.1
  URL: https://github.com/joliss/broccoli-writer
VendorName: Jo Liss
  brocoli@0.16.8
  URL: https://github.com/broccolijs/broccoli
VendorName: Jo Liss
  VendorUrl: https://github.com/broccolijs/broccoli
buffer-from@1.1.1
  URL: https://github.com/LinusU/buffer-from.git
builtn-modules@1.1.1
  URL: https://github.com/sindresorhus/builtn-modules.git
VendorName: Sindre Sorhus
  VendorUrl: sindresorhus.com
builtns@0.0.7
  URL: https://github.com/juliangruber/builtns.git
builtns@1.0.3
  URL: https://github.com/juliangruber/builtns.git
bytes@2.2.0
  URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
  VendorUrl: http://tjholowaychuk.com
bytes@2.4.0
  URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
  VendorUrl: http://tjholowaychuk.com
bytes@3.0.0
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bytes@3.1.0
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VendorName: TJ Holowaychuk
  VendorUrl: http://tjholowaychuk.com
camelcase-keys@2.1.0
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VendorName: Sindre Sorhus
camelcase@1.2.1
URL: https://github.com/sindresorhus/camelcase.git
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camelcase@2.1.1
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VendorUrl: http://sindresorhus.com
camelcase@3.0.0
URL: https://github.com/sindresorhus/camelcase.git
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VendorUrl: http://sindresorhus.com
can-symlink@1.0.0
URL: https://github.com/raytiley/can-symlink
VendorName: raytiley
cardinal@0.5.0
URL: git://github.com/thlorenz/cardinal.git
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
center-align@0.1.3
URL: https://github.com/jonschlinkert/center-align.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/center-align
chalk@0.4.0
URL: https://github.com/sindresorhus/chalk.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
chalk@0.5.1
URL: https://github.com/sindresorhus/chalk.git
chalk@1.1.0
URL: https://github.com/chalk/chalk.git
chalk@1.1.3
URL: https://github.com/chalk/chalk.git
chalk@2.4.2
URL: https://github.com/chalk/chalk.git
charm@1.0.2
URL: http://github.com/substack/node-charm.git
VendorName: James Halliday
VendorUrl: http://substack.net
clean-css@2.2.23
URL: https://github.com/GoalSmashers/clean-css.git
VendorName: Jakub Pawlowicz
VendorUrl: https://github.com/GoalSmashers/clean-css
cli-color@0.3.3
URL: git://github.com/medikoo/cli-color.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
 cli-table@0.3.1
 URL: https://github.com/Automattic/cli-table.git
 VendorName: Guillermo Rauch
 cli@1.0.1
 URL: http://github.com/node-js-libs/cli.git
 VendorName: Chris O'Hara
 VendorUrl: http://github.com/node-js-libs/cli
 clone@0.2.0
 URL: git://github.com/pvorb/node-clone.git
 VendorName: Paul Vorbach
 VendorUrl: http://paul.vorba.ch/
 clone@1.0.4
 URL: git://github.com/pvorb/node-clone.git
 VendorName: Paul Vorbach
 VendorUrl: http://paul.vorba.ch/
 clone@2.1.2
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 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
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VendorUrl: https://github.com/visionmedia/commander.js.git
commander@2.20.3
URL: https://github.com/tj/commander.js.git
VendorName: TJ Holowaychuk
commoner@0.10.8
URL: git://github.com/benjamn/commoner.git
VendorName: Ben Newman
VendorUrl: http://github.com/benjamn/commoner
compressible@2.0.17
URL: https://github.com/jshttp/compressible.git
compression@1.7.4
URL: https://github.com/expressjs/compression.git
concat-map@0.0.1
URL: git://github.com/substack/node-concat-map.git
VendorName: James Halliday
VendorUrl: http://substack.net
concat-stream@1.5.0
URL: http://github.com/maxogden/concat-stream.git
VendorName: Max Ogden
concat-stream@1.6.2
URL: http://github.com/maxogden/concat-stream.git
VendorName: Max Ogden
config-chain@1.1.12
URL: https://github.com/dominictarr/config-chain.git
VendorName: Dominic Tarr
VendorUrl: http://github.com/dominictarr/config-chain
connect@3.7.0
URL: https://github.com/senchalabs/connect.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
console-browserify@1.1.0
URL: git://github.com/Raynos/console-browserify.git
VendorName: Raynos
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consolidate@0.13.1
URL: https://github.com/visionmedia/consolidate.js.git
VendorName: TJ Holowaychuk
content-disposition@0.5.3
URL: https://github.com/jshttp/content-disposition.git
VendorName: Douglas Christopher Wilson
content-type@1.0.4
URL: https://github.com/jshttp/content-type.git
VendorName: Douglas Christopher Wilson
convert-source-map@1.7.0
URL: git://github.com/thlorenz/convert-source-map.git
VendorName: Thorsten Lorenz
VendorUrl: https://github.com/thlorenz/convert-source-map
cookie-signature@1.0.6
URL: https://github.com/visionmedia/node-cookie-signature.git
VendorName: TJ Holowaychuk

cookie@0.4.0
URL: https://github.com/jshttp/cookie.git
VendorName: Roman Shtylman

copy-dereference@1.0.0
URL: https://github.com/broccolijs/node-copy-dereference
VendorName: Jo Liss

core-js@1.2.7
URL: https://github.com/zloirock/core-js.git

core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object

core-util-is@1.0.2
URL: git://github.com/isaacs/core-util-is
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
cross-spawn-async@2.2.5
URL: git://github.com/IndigoUnited/node-cross-spawn-async.git
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cross-spawn@3.0.1
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cctype@0.5.3
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VendorName: Robert Mustacchi
VendorUrl: https://github.com/rmustacc/node-ctype
currently-unhandled@0.4.1
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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
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debug@0.7.4
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debug@1.0.2
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debug@3.2.6
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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
depd@1.1.2
URL: https://github.com/dougwilson/nodejs-depd.git
VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: https://github.com/stream-utils/destroy.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
detect-indent@3.0.1
URL: https://github.com/sindresorhus/detect-indent.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
detective@4.7.1
URL: git://github.com/browserify/detective.git
VendorName: James Halliday
VendorUrl: http://substack.net
did_it_work@0.0.6
VendorName: Toby Ho
dom-serializer@0.2.2
URL: git://github.com/cheeriojs/dom-renderer.git
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: https://github.com/quartzjer/ecc-jsbn.git
VendorName: Jeremie Miller
VendorUrl: https://github.com/quartzjer/ecc-jsbn
editions@1.3.4
URL: https://github.com/bevry/editions.git
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/editions
editor@1.0.0
URL: git://github.com/substack/node-editor.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/node-editor
ee-first@1.1.1
URL: https://github.com/jonathanong/ee-first.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
em-helpers@0.8.0
URL: https://github.com/sreenaths/em-helpers.git
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: https://github.com/sreenaths/em-table.git
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: https://github.com/bmeurant/ember-array-contains-helper
VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
URL: https://github.com/kaliber5/ember-bootstrap
VendorName: Simon Ihmig
VendorUrl: http://kaliber5.github.io/ember-bootstrap/
ember-cli-app-version@1.0.0
URL: https://github.com/embersherpa/ember-cli-app-version.git
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
VendorUrl: https://github.com/babel/ember-cli-babel
ember-cli-babel@5.2.8
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: https://github.com/rwjblue/ember-cli-content-security-policy
everm-cli-copy-dereference@1.0.0
URL: https://github.com/broccolijs/node-copy-dereference
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: https://github.com/quertym/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
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VendorUrl: https://github.com/ember-cli/ember-cli-htmlbars
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VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: https://github.com/ember-cli/ember-cli-htmlbars
ember-cli-ic-ajax@0.2.1
URL: https://github.com/rjackson/ember-cli-ic-ajax
VendorName: Robert Jackson
VendorUrl: https://github.com/rjackson/ember-cli-ic-ajax
ember-cli-inject-live-reload@1.4.0
URL: git://github.com/rwjblue/ember-cli-inject-live-reload.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/ember-cli-inject-live-reload
ember-cli-jquery-ui@0.0.20
URL: https://github.com/gaurav0/ember-cli-jquery-ui
VendorName: Gaurav Munjal
ember-cli-less@1.5.7
URL: https://github.com/gdub22/ember-cli-less
VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3
URL: git://github.com/jasonmit/ember-cli-moment-shim.git
VendorName: Jason Mitchell
VendorUrl: https://github.com/jasonmit/ember-cli-moment-shim
ember-cli-node-assets@0.1.6
URL: https://github.com/dfreeman/ember-cli-node-assets.git
VendorName: Dan Freeman
ember-cli-numeral@0.2.0
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VendorName: Jay Phelps
VendorUrl: https://github.com/josemarluedke/ember-cli-numeral
ember-cli-qunit@1.2.1
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VendorName: Jake Craige
VendorUrl: https://github.com/ember-cli/ember-cli-qunit
ember-cli-release@0.2.8
URL: https://github.com/lytics/ember-cli-release.git
VendorName: Steven Lindberg
ember-cli-sass@7.0.0
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ember-cli-sri@1.2.1
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ember-cli-uglify@1.2.0
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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
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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
echo-engine.io-parser@1.2.2
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echo-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
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VendorName: Mariusz Nowak
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
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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
URL: git://github.com:tsertkov/exec-sh.git
VendorName: Aleksandr Tsertkov

exit@0.1.2
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VendorName: "Cowboy" Ben Alman
VendorUrl: https://github.com/cowboy/node-exit

expand-brackets@0.1.5
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VendorUrl: https://github.com/jonschlinkert/expand-brackets

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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
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fast-deep-equal@2.0.1
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VendorName: Evgeny Poberezkin
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fast-json-stable-stringify@2.1.0
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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
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fd-slicer@1.0.1
URL: git://github.com/andrewrk/node-fd-slicer.git
VendorName: Andrew Kelley
filename-regex@2.0.1
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VendorName: Jon Schlinkert
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fileset@0.2.1
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fill-range@2.2.4
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finalhandler@1.1.2
URL: https://github.com/pillarjs/finalhandler.git
VendorName: Douglas Christopher Wilson
find-up@1.1.2
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
findup-sync@0.2.1
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VendorUrl: https://github.com/cowboy/node-findup-sync
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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
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/for-in

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VendorUrl: https://github.com/jonschlinkert/for-own

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VendorUrl: http://debuggable.com/

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VendorUrl: http://debuggable.com/

form-data@2.3.3
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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
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VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-fs-extra

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VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-fs-extra

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VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-fs-extra
glob-base@0.3.0
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/glob-base

globals@6.4.1
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VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

globule@1.3.0
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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
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

has-binary@0.1.6
VendorName: Kevin Roark

has-color@0.1.7
URL: https://github.com/sindresorhus/has-color.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

has-cors@1.1.0
URL: git://github.com/component/has-cors.git
VendorName: Nathan Rajlich
VendorUrl: http://n8.io/

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URL: https://github.com/sindresorhus/has-flag.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite
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VendorName: Nadav Ivgi
VendorUrl: https://github.com/shesek/iferr
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VendorName: netroy
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imurmurhash@0.1.4
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VendorName: Jens Taylor
VendorUrl: https://github.com/jensyt/imurmurhash-js
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VendorName: Jo Liss
indent-string@2.1.0
  URL: https://github.com/sindresorhus/indent-string.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
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inquirer@0.5.1
  URL: git://github.com/SBoudrias/Inquirer.js.git
VendorName: Simon Boudrias
invert-kv@1.0.0
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VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
ipaddr.js@1.9.0
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is-arrayish@0.2.1
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is-buffer@1.1.6
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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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is-fullwidth-code-point@1.0.0  
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-primitive

is-property@1.0.2
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VendorName: Mikola Lysenko
VendorUrl: https://mikolalysenko.com

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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jsbn@0.1.1
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punycode@2.1.1
URL: https://github.com/bestiejs/punycode.js.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/punycode
q@1.5.1
URL: git://github.com/kriskowal/q.git
VendorName: Kris Kowal
VendorUrl: https://github.com/kriskowal/q
quick-temp@0.1.3
URL: https://github.com/joliss/node-quick-temp
VendorName: Jo Liss
quick-temp@0.1.8
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VendorName: Jo Liss
qunitjs@1.23.1
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VendorName: jQuery Foundation and other contributors
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randomatic@3.1.1
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VendorName: Jon Schlinkert
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range-parser@1.2.1
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raw-body@2.1.7
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  VendorName: Jonathan Ong
  VendorUrl: http://jongleberry.com
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  VendorUrl: http://jongleberry.com
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  VendorUrl: sindresorhus.com
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  VendorUrl: sindresorhus.com
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  VendorUrl: http://blog.izs.me/
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  VendorUrl: sindresorhus.com
redeyed@0.5.0
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VendorName: Thorsten Lorenz
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renew@1.4.0
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VendorName: Mathias Bynens
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regex-cache@0.4.4
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regexpu@1.3.0
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regjsgen@0.2.0
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VendorUrl: sindresorhus.com
repeating@2.0.1
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VendorUrl: sindresorhus.com
request-progress@2.0.1
URL: git://github.com/IndigoUnited/node-request-progress
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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
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VendorUrl: https://github.com/unshiftio/requires-port
resolve-package-path@1.2.7
resolve@1.14.1
URL: git://github.com/browserify/resolve.git
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retry@0.8.0
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rimraf@2.2.8
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rsvp@3.2.1
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rsvp@3.6.2
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  VendorName: Kevin Brown
  VendorUrl: https://select2.github.io/
send@0.17.1
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  VendorName: TJ Holowaychuk
serve-static@1.14.1
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  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
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  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
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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
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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
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VendorName: Angry Bytes
statuses@1.5.0
URL: https://github.com/jshttp/statuses.git
stdout-stream@1.4.1
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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
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stringset@0.2.1
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stringstream@0.0.6
URL: https://github.com/mhart/StringStream.git
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: http://sindresorhus.com
strip-ansi@0.3.0
temp@0.8.1
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  VendorName: Bruce Williams
testem@0.9.11
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text-table@0.2.0
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textextensions@2.6.0
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  VendorUrl: https://github.com/dominictarr/throttle
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  VendorUrl: http://github.com/raszi/node-tmp
to-array@0.1.3
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  VendorUrl: https://github.com/Raynos/to-array
to-fast-properties@1.0.3
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  VendorName: Sindre Sorhus
  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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  VendorUrl: sindresorhus.com
trim-right@1.0.1
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try-resolve@1.0.1
Open Source Used In imicampaign 6.2.0 2278

tryor@0.1.2
VendorName: Sebastian McKenzie
URL: https://github.com/sebmck/try-resolve.git

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

type-is@1.6.18
VendorName: James Halliday
URL: https://github.com/jshttp/type-is.git

typedarray@0.0.6
VendorName: James Halliday
URL: git://github.com/substack/typedarray.git

uc.micro@1.0.6
VendorName: James Halliday
URL: https://github.com/substack/typedarray

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

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

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

underscore.string@2.3.3
VendorName: Jeremy Ashkenas
URL: https://github.com/epeli/underscore.string.git

underscore.string@3.3.5
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URL: https://github.com/epeli/underscore.string.git

underscore@1.9.1
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URL: https://github.com/epeli/underscore.string.git

universalify@0.1.2
VendorName: Ryan Zimmerman
URL: git+https://github.com/RyanZim/universalify.git

unpipe@1.0.0
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URL: https://github.com/stream-utils/unpipe.git

user-home@1.1.1
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wrap-ansi@2.1.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ws-pure@0.8.0
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xdg-basedir@2.0.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
xmlhttprequest-ssl@1.5.1
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VendorName: Raynos
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VendorName: Alex Navasardyan
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VendorUrl: http://CodeTunnel.com
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VendorName: Josh Wolfe
VendorUrl: https://github.com/thejoshwolfe/yauzl
MIT*
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VendorName: Mark Cavage
async-foreach@0.1.3
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VendorName: "Cowboy" Ben Alman
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jsonify@0.0.0
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VendorName: Douglas Crockford
VendorUrl: http://crockford.com/

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

Unknown
base64id@0.1.0
URL: https://github.com/faeldt/base64id.git
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colors@0.6.2
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JUnit

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  * Tatu Saloranta
  * Providing benchmark suite
  * Alec Wysoker
  * Performance and memory usage improvement

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jaxb-api

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uriparser - RFC 3986 URI parsing library

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

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hadoop-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
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hadoop-common-project/hadoop-common/src/main/webapps/static/bootstrap-3.4.1
hadoop-common-project/hadoop-common/src/main/webapps/static/dataTables.bootstrap.css
hadoop-common-project/hadoop-common/src/main/webapps/static/dataTables.bootstrap.js
hadoop-common-project/hadoop-common/src/main/webapps/static/dust-full-2.0.0.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/src/main/resources/webapps/static/express/1*

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

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js
For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:
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*
* Abstract: The main routine
* 
* --*/
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  - VendorName: Christian Hoffmeister
  - VendorUrl: https://github.com/choffmeister/roboto-fontface-bower
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  - URL: git://github.com/fb55/entities.git
  - VendorName: Felix Boehm
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  - URL: git://github.com/arturadib/shelljs.git
  - VendorName: Artur Adib
  - VendorUrl: http://github.com/arturadib/shelljs
  - sprintf-js@1.0.3
  - URL: https://github.com/alexei/sprintf.js.git
  - VendorName: Alexandru Marasteanu
  - VendorUrl: http://alexei.ro/
  - ISC

- fs.realpath@1.0.0
  - URL: git+https://github.com/isaacs/fs.realpath.git
  - VendorName: Isaac Z. Schlueter
  - VendorUrl: http://blog.izs.me/
  - glob@7.1.6
  - URL: git://github.com/isaacs/node-glob.git
  - VendorName: Isaac Z. Schlueter
  - VendorUrl: http://blog.izs.me/
  - graceful-fs@4.2.4
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  - URL: https://github.com/npm/inflight.git
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URL: git://github.com/juliangruber/balanced-match.git

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VendorUrl: http://getbootstrap.com/
URL: https://github.com/twbs/bootstrap.git

brace-expansion@1.1.11
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/brace-expansion
URL: git://github.com/juliangruber/brace-expansion.git

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VendorName: Heather Arthur
VendorUrl: https://github.com/Qix-/color-convert
URL: https://github.com/Qix-/color-convert.git

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VendorUrl: https://github.com/dfcreative/color-name
URL: git@github.com:dfcreative/color-name.git

color-name@1.1.4
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VendorUrl: https://github.com/dfcreative/color-name
URL: git@github.com:colorjs/color-name.git

color-string@1.5.3
VendorName: Heather Arthur
VendorUrl: https://github.com/Qix-/color-string
URL: https://github.com/Qix-/color-string.git

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URL: https://github.com/Qix-/color.git

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URL: git://github.com/timoxley/colornames.git

colors@1.4.0
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URL: http://github.com/Marak/colors.js

colorspace@1.1.2
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URL: https://github.com/3rd-Eden/colorspace

commander@2.20.3
VendorName: TJ Holowaychuk
VendorUrl: https://github.com/tj/commander.js
URL: https://github.com/tj/commander.js

concat-map@0.0.1
VendorName: James Halliday
VendorUrl: https://github.com/substack
URL: git://github.com/substack/node-concat-map

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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
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://github.com/taylorhakes/taylorhakes/fecha.git
VendorName: Taylor Hakes
VendorUrl: https://github.com/taylorhakes/fecha

fs-extra@3.0.1
URL: https://github.com/jprichardson/node-fs-extra
VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-fs-extra

fs-extra@7.0.1
URL: https://github.com/jprichardson/node-fs-extra
VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-fs-extra

iconv-lite@0.4.24
URL: git://github.com/ashtuchkin/iconv-lite.git
VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite

is-arrayish@0.3.2
URL: https://github.com/qix-/node-is-arrayish.git
VendorName: Qix
VendorUrl: http://github.com/qix-

is-stream@1.1.0
URL: https://github.com/sindresorhus/is-stream.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/isarray

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VendorName: James Burke
VendorUrl: http://github.com/jrburke/r.js
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VendorUrl: https://github.com/feross/safe-buffer
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VendorName: Nikita Skovoroda
VendorUrl: https://github.com/ChALkeR
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URL: https://github.com/3rd-Eden/text-hex
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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
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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
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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.aliyun:aliyun-java-sdk-ram:3.0.0
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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
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com.google.android:annotations:jar:4.1.1.4
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com.google.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava
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org.eclipse.jetty:jetty-jndi:9.4.40.v20210413
org.eclipse.jetty:jetty-plus:9.4.40.v20210413

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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
```

**BSD 3-Clause**

```
hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
```

---

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/-util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.cc
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.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-analysis:9.0
org.ow2.asm:asm-commons:9.0
org.ow2.asm:asm-tree:9.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5
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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
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org.checkerframework:checker-framework:checker-qual:2.5.2
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org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:slf4j-api:1.7.30
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
com.sun.jersey:jersey-json:1.19
com.sun.jersey:jersey-server: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:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

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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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org.jdom:jdom:1.1

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

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

aopalliance:aopalliance:1.0

See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp
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1.333 jackson-databind 2.6.7.2

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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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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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* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/win32/StdCall.java
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**1.336 animal-sniffer-annotation 1.14**

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1.338 aws-java-sdk-for-the-amazon-ec2-container-service 1.11.155

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1.339 jmes-path-query-library 1.11.555

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1.342 neko-html 1.9.12

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*/opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohml-1-9-12-sources-jar/org/cyberneko/html/HTMLComponent.java
*/opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohml-1-9-12-sources-jar/sample/TestHTMLDOMFragment.java
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* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-jar/org/springframework/beans/factory/aspectj/AbstractMethodMockingControl.aj
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1.348 aws-java-sdk-for-aws-step-functions

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-1.jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-1.jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/Buffer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/SSL.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/Library.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/scp/DefaultScpServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io.netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io.netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io.netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io.netty/handler/ssl/SslContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io.netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io.netty/example/http/websocketx/client/WebSocketClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/DnsNameResolverContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/http/HeaderValues.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/file/FileServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/haproxy/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/memcache/binary/MemcacheClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http2/helloworld/server/Http2Server.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java

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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/SctpChannelOption.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/UdtServerChannel.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxChannel.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/package-info.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/oio/OioByteStreamChannel.java

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

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* `/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java`
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 */

/*
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 */

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

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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/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.

[ @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.

<3>2 bytes length field at offset 0, do not strip header</3>

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>
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

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
</pre>
* initialBytesToStrip = 2 (= the length of the Length field)
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>

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

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

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* initialBytesToStrip = 0
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

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

* <pre>
* 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" |
* 3 bytes length field at the beginning of 5 bytes header, do not strip header

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>`
* `lengthFieldOffset = 0`
* `lengthFieldLength = 3`
* `<b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)`
* `initialBytesToStrip = 0`
* `BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)`
* `+----------+----------+----------------+      +----------+----------+----------------+`
* `|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* `| 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* `+----------+----------+----------------+      +----------+----------+----------------+`
* `/pre>`

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
  strip the first header field and the length field

* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
* header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
* `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
* `<pre>`
* `lengthFieldOffset = 1 (= the length of HDR1)`
* `lengthFieldLength = 2`
* `<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)`
* `<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)`
* `BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)`
* `+-----------------+-----------------+-----------------+      +-----------------+-----------------+-----------------+`
* `| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |"
* `| 0xCA | 0x000C | 0xFE  | "HELLO, WORLD" |      | 0xFE  | "HELLO, WORLD" |
* `+-----------------+-----------------+-----------------+      +-----------------+-----------------+-----------------+`
* `/pre>`

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
  strip the first header field and the length field, the length field
* represents the length of the whole message
Let’s give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
Please note that we don’t need to take the length of HDR2 into account
because the length field already includes the whole header length.

```plaintext
lengthFieldOffset   = 1
lengthFieldLength   = 2
<b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
<b>initialBytesToStrip</b> = <b>3</b>
```

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

```
+----------+----------+--------+----------------+
| HDR1     | Length   | HDR2   | Actual Content |
| 0xCA     | 0x0010   | 0xFE   | "HELLO, WORLD" |
+----------+----------+--------+----------------+
```

@see LengthFieldPrepender

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/flow/FlowControlHandler.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/CleanerJava6.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/FastThreadLocalThread.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/DefaultChannelHandlerContext.java

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

Found in path(s):
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  */opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspServerExample.java
  */opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/Digester.java
  */opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspClientExample.java
  */opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspUtils.java
  */opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspRequestBuilder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/example/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/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/buffer/AbstractByteBufAllocator.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/example/http/file/HttpStaticFileServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/EventLoopException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/ChannelConfig.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/http/multipart/InternalAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/factorial/FactorialServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/socksproxy/DirectClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/discard/DiscardClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpObject.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksproxy/DefaultHttpObject.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/sctp/SctpEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/udt/echo/message/MsgEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/udt/LocalAddress.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/Socket5InitialResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/package-info.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/example/factorial/FactorialClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/http/DefaultHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/compression/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/sctp/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/udt/bytes/ByteEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/Timer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/upload/HttpUploadServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/HashedWheelTimer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/SystemPropertyUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/socksproxy/SocksServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ChannelPipelineException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/worldclock/WorldClockClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/telnet/TelnetServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/local/LocalServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpServerCodec.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/file/HttpStaticFileServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/UdtChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/sctp/SctpEchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpContentDecompressor.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/telnet/TelnetClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/AbstractChannelHandlerContext.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/worldclock/WorldClockServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/snoop/HttpSnoopClient.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/channel/local/LocalChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/worldclock/WorldClockServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/BlockingOperationException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/logging/package-info.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}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
 * <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*   // your methods here
* }
* 
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*   private boolean loggedIn;
*   
*   @Override
*   public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
*     Channel ch = e.getChannel();
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       loggedIn = true;
*     } else (message instanceof GetDataMessage) {
*       if (loggedIn) {
*         ch.write(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*   }
*   ...
* }
* 
* 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 {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer} {
    @Override
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:
<pre>
public interface Message {
    // your methods here
}

[@code @Sharable]
public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
    private final {@link AttributeKey}<{@link Boolean}> auth =
            {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    @Override
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        @link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
        @link Channel} ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            <b>attr.set(true)</b>;
        } else (message instanceof GetDataMessage) {
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
                ch.write(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}
</pre>

Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
same handler instance to different pipelines:
<pre>
public class DataServerInitializer extends {@link ChannelInitializer} {
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}
private static final DataServerHandler SHARED = new DataServerHandler();

@Override
public void initChannel(Channel channel) {
    channel.pipeline().addLast("handler", SHARED);
}

The @Sharable annotation

In the example above which used an AttributeKey, you might have noticed the @Sharable annotation.

If a ChannelHandler is annotated with the @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more ChannelPipeline's multiple times without a race condition.

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.

This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/" the JCIP annotations.

Additional resources worth reading

Please refer to the ChannelHandler, and 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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/**
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 */
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/socksx/ProtocolVersion.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/DefaultFutureListeners.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/HpackStaticTable.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/HpackEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.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/udt/nio/NioUdtProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/sctp/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/udt/UndtChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/InternalLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/ CommonsLogger.java

1.351 aws-java-sdk-for-aws-lambda 1.11.257

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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;

/*@returnScopeInterface.memVars() ::= <<
  /* ASTTreeParser returnScopeInterface.memVars */
  <recognizer.ASTLabelType; null="ANTLRCommonTree"> *tree;
>>

/*@returnScope.methodsDecl() ::= <<
  /* ASTTreeParser returnScopeInterface.methodsDecl */
  - (<recognizer.ASTLabelType; null="ANTLRCommonTree"> *)getTree;
  - (void) setTree:(<recognizer.ASTLabelType; null="ANTLRCommonTree"> *)aTree;
>>

/*@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;<ln>
>>

/** What to emit when there is no rewrite rule. For auto build */
/* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */
<if(backtracking)> if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
   retval.tree = (<ASTLabelType> *)&_first_0;
   if ( ![treeAdaptor getParent:retval.tree] != nil && ![treeAdaptor isNil:[treeAdaptor getParent:retval.tree]] )
      retval.tree = (<ASTLabelType> *)&[treeAdaptor getParent:retval.tree];
<endif>
<if(backtracking)> }<endif>
>>

/** match ^(root children) in tree parser; override here to */
/* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
/* ASTTreeParser tree */
   _last = (<ASTLabelType> *)[input LT:1];
   {
      <ASTLabelType> *_save_last_<treeLevel> = _last;
      <ASTLabelType> *_first_<treeLevel> = nil;

<if(!rewriteMode)>
  <ASTLabelType> *root_<treeLevel> = [[[treeAdaptor class] newEmptyTree] retain];
</if>

<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==nil ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==nil ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == ANTLRTokenTypeDOWN ) {
  [self match:input TokenType:ANTLRTokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
  <children:element()>[
  [self match:input TokenType:ANTLRTokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
} 
<else>
[self match:input TokenType:ANTLRTokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>[
[self match:input TokenType:ANTLRTokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
  [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
</if>
_last = _save_last_<treeLevel>;
</if>
</if>

/** 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 */
_water = (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>
[treeAdaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)> } <endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==nil ) _first_<treeLevel> = <label>;
<endif>
>>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>}
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)> } <endif>
<endif>
>>

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

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
/* ASTTreeParser wildcard */
_last = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)
<if(!rewriteMode)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType> *)[adaptor dupTree:<label>];
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif>
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<endif>
}
>
>>

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

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)>>

matchSetRuleRoot(s, label, hetero, elementIndex, debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif>
root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}{<endif>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
/* ASTTreeParser ruleRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>>

/** 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>
</if>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem=""+label+" getTree]",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrack */
_last = (ASTLabelType *)[input LT:1];
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrackAndListLabel */
_last = (ASTLabelType *)[input LT:1];
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrack */
_last = (ASTLabelType *)[input LT:1];
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrackAndListLabel */
_last = (ASTLabelType *)[input LT:1];
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to */
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
/* ASTTreeParser createRewriteNodeFromElement */
#error Heterogeneous tree support not implemented.
<if(hetero)>
<! new <hetero>(stream_<token>.nextNode()) !>
[[[ANTLR<hetero>(stream_<token> alloc] init] nextNode];
<else>
<! stream_<token>.nextNode() !>
[stream_<token> nextNode]
<endif>
>>

ruleCleanUp() ::= <<
/* ASTTreeParser ruleCleanUp */
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {
<endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor 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/ObjC/ASTTreeParser.stg
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*/
/** ANTLR's code generator.
 *
* Generate recognizers derived from grammars. Language independence
* achieved through the use of StringTemplateGroup objects. All output
* strings are completely encapsulated in the group files such as Java.stg.
* Some computations are done that are unused by a particular language.
* This generator just computes and sets the values into the templates;
* the templates are free to use or not use the information.
*
* To make a new code generation target, define X.stg for language X
* by copying from existing Y.stg most closely 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.
*
* 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 scarpate. recognizer
* is in outptufile.
*/

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CodeGenerator.java
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documentation and/or other materials provided with the distribution.
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derived from this software without specific prior written permission.
interface ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code. */

outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions,
        docComment, recognizer,
        name, tokens, tokenNames, rules, cyclicDFAs,
        bitsets, buildTemplate, buildAST, rewriteMode, profile,
        backtracking, synpreds, memoize, numRules,
        fileName, ANTLRVersion, generatedTimestamp, trace,
        scopes, superClass, literals);

/** The header file; make sure to define headerFileExtension() below */
optional

headerFile(LEXER, PARSER, TREE_PARSER, actionScope, actions,
        docComment, recognizer,
        name, tokens, tokenNames, rules, cyclicDFAs,
        bitsets, buildTemplate, buildAST, rewriteMode, profile,
        backtracking, synpreds, memoize, numRules,
        fileName, ANTLRVersion, generatedTimestamp, trace,
        scopes, superClass, literals);

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

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
      bitsets, ASTLabelType, superClass,
      labelType, members);

treeParser(grammar, name, scopes, tokens, tokenNames, 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();

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

/** A rule block with multiple alternatives */
ruleBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

ruleBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description);

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description);

/** A (...)+ block with 0 or more alternatives */
positiveClosureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

positiveClosureBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);
/** A (...) block with 0 or more alternatives */
closureBlock(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

closureBlockSingleAlt(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template */
optionalBlock(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

optionalBlockSingleAlt(alt, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description);

/** An alternative is just a list of elements; at outermost level */
alt(alt, 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,elementIndex,scope);

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,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);

// DFA EXPRESSIONS
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);

// ATTRIBUTES
parameterAttributeRef(attr);
parameterSetAttributeRef(attr, expr);

scopeAttributeRef(scope, attr, index, negIndex);
scopeSetAttributeRef(scope, expr, index, negIndex);

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
* like \{\$function.size()>0 &\$function::name.equals("foo")\}?

*/
isolatedDynamicScopeRef(scope);

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr);

returnAttributeRef(ruleDescriptor,attr);
returnSetAttributeRef(ruleDescriptor,attr,expr);

/** How to translate $tokenLabel */
tokenLabelRef(label);

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label);

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr);
tokenLabelPropertyRef_type(scope,attr);
tokenLabelPropertyRef_line(scope,attr);
tokenLabelPropertyRef_pos(scope,attr);
tokenLabelPropertyRef_channel(scope,attr);
tokenLabelPropertyRef_index(scope,attr);
tokenLabelPropertyRef_tree(scope,attr);

ruleLabelPropertyRef_start(scope,attr);
ruleLabelPropertyRef_stop(scope,attr);
ruleLabelPropertyRef_tree(scope,attr);
ruleLabelPropertyRef_text(scope,attr);
ruleLabelPropertyRef_st(scope,attr);

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label);

lexerRuleLabelPropertyRef_type(scope,attr);
lexerRuleLabelPropertyRef_line(scope,attr);
lexerRuleLabelPropertyRef_pos(scope,attr);
lexerRuleLabelPropertyRef_channel(scope,attr);
lexerRuleLabelPropertyRef_index(scope,attr);
lexerRuleLabelPropertyRef_text(scope,attr);

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr);
rulePropertyRef_stop(scope,attr);
rulePropertyRef_tree(scope,attr);
rulePropertyRef_text(scope,attr);
rulePropertyRef_st(scope,attr);

lexerRulePropertyRef_text(scope,attr);
lexerRulePropertyRef_type(scope,attr);
lexerRulePropertyRef_line(scope,attr);
lexerRulePropertyRef_pos(scope,attr);
/** Undefined, but present for consistency with Token attributes; set to -1 */
lexerRulePropertyRef_index(scope,attr);
lexerRulePropertyRef_channel(scope,attr);
lexerRulePropertyRef_start(scope,attr);
lexerRulePropertyRef_stop(scope,attr);

ruleSetPropertyRef_tree(scope,attr,expr);
ruleSetPropertyRef_st(scope,attr,expr);

/** How to execute an action */
execAction(action);

// M I S C (properties, etc...)

codeFileExtension();

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

true();
false();

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ANTLRCore.sti
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*/

```java
/*
group AST;

@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<\n>
<endif>
>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();<\n>
override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.treeAdaptor = this.adaptor;}>}
}
override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0:<ASTLabelType> = null;<\n>
>>
```
/** 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> ) <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 */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
@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>.tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<ListLabel(elem=label+".tree",....)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
>>

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

// R e w r i t e

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

// AST REWRITE
// elements: <referencedElementsDeep; separator="", "">
// token labels: <referencedTokenLabels; separator="", ">
// rule labels: <referencedRuleLabels; separator="", ">
// token list labels: <referencedTokenListLabels; separator="", ">
// rule list labels: <referencedRuleListLabels; separator="", ">
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) {  
  
@endif

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

root_0 = <ASTLabelType>(adaptor.nil());
<alts:rewriteAlt(); separator="else ">
! if tree parser and rewrite=true !>
@if(TREE_PARSER) 
@if(rewriteMode) 
<prevRuleRootRef()> .tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
input.replaceChildren(adaptor.getParent(retval.start),
  adaptor.getChildIndex(retval.start),
  adaptor.getChildIndex(_last),
  retval.tree);
@endif
@endif

! if parser or tree-parser && rewrite!=true, we need to set result !>
@if(!TREE_PARSER) 
<prevRuleRootRef()> .tree = root_0;
@endif
@if(!rewriteMode) 
<prevRuleRootRef()> .tree = root_0;
@endif
@endif
@if(backtracking)  
}
@endif
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
    RewriteRule<rewriteElementType>Stream(adaptor,"token <it>".,<it>);};
    separator="\n"
>
<referencedTokenListLabels
  :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
    RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"., list_<it>);};
    separator="\n"
>
<referencedWildcardLabels
  :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>".,<it>);};
    separator="\n"
>
/** 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();
    >>

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>
  }<\n>
  <else>
  {
    <a.alt>
  }<\n>
  <endif>
>>

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

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>:<description>
  {
  var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
  <root:rewriteElement()>
  <children:rewriteElement()>
  adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  }<\n>
>>

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

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

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

/** 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 ^(ID ...) or ^(ID[...]) */
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)"<tokenType>"<endif>))
<endif>
<endif>
>>
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=" ">)<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(...)>
<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,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>
// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero;elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})>})}>
>>

matchRuleBlockSet(s,label,hetero;elementIndex,postmatchCode.treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label;elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero;elementIndex,debug) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(..., postmatchCode={<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<createNodeFromToken(...)>), root_0})}>})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label;elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree})}>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label;elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...>)
<listLabel(elem=label+".tree",...)> 
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)> 
>>

// WILDCARD AST

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

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label,elementIndex) ::= "<super.wildcard(...)>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
>>
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()>
<parsersMembers()>
>>

@genericParser.membersConstructor() ::= <<
<@super.membersConstructor()>
<parsersMembersConstructor()>
>>

@genericParser.membersImplementation() ::= <<
<@super.membersImplementation()>
<parsersMembersImplementation()>
>>

/** Add an adaptor property that knows how to build trees */
parsersMembers() ::= <<
strict protected
   FAdaptor: ITreeAdaptor;
   procedure SetAdaptor(const Value: ITreeAdaptor);
   property Adaptor: ITreeAdaptor read FAdaptor;
public
   property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;
>>

parsersMembersConstructor() ::= <<
FAdaptor := TCommonTreeAdaptor.Create;
>>

parsersMembersImplementation() ::= <<
procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
begin
   FAdaptor := Value;
   <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>
end;
>>

@returnScope.ruleReturnMembers() ::= <<
function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
begin
   Result := FTree;
end;
procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value: IANTLRInterface);
begin
  FTree := Value as I<ASTLabelType>;
end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
  strict private
  FTree: I<ASTLabelType>;
  protected
  { IRuleReturnScope }
  function GetTree: IANTLRInterface; override;
  procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  Root[0] := nil;<
>>

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>);
</
>>

/** 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>);
</
>>

/** 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'] as
>>

---

Open Source Used In imicampaign 6.2.0 2581
IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,scope) ::= <<
<ruleRefTrack(...)>
<ListLabel(elem=label+.Tree,...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>({Stream.<rule>} as
IRewriteRuleElementStream).Add(<label>.Tree);
>>

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

// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements:       <referencedElementsDeep; separator=", ">
// rule labels:    <referencedRuleLabels; separator=", ">
// token labels:  <referencedTokenLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
<if(backtracking>)
if (State.Backtracking = 0) then
begin<<
<endif>
<prevRuleRootRef().Tree := Root[0];
<rewriteCodeLabels()>

---

Open Source Used In imicampaign 6.2.0 2582
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>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
 separator="\n"
>
<referencedTokenListLabels
 :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>', list_<it>);};
 separator="\n"
>
<referencedRuleLabels:{
if Assigned(<it>) then
 Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>).Tree)
else
 Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil);}; separator="\n"
<referencedRuleListLabels
 :{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);};
 separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt, rewriteBlockLevel, referencedElementsDeep, // all nested refs referencedElements, // elements in immediately block; no nested blocks description) ::= << (* <fileName>:<description> *)
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") then
begin
<alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset;\n}> >>

rewriteClosureBlock(
alt, rewriteBlockLevel, referencedElementsDeep, // all nested refs referencedElements, // elements in immediately block; no nested blocks description) ::= << (* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();\n}> >>

rewritePositiveClosureBlock(
alt, rewriteBlockLevel, referencedElementsDeep, // all nested refs referencedElements, // elements in immediately block; no nested blocks description) ::= << if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") ) then
raise ERewriteEarlyExitException.Create('');
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();\n}> >>

rewriteAlt(a) ::= <<
/* <a.description> */
;if(a.pred)
if (<a.pred>) then
begin
<a.alt>
end
<else>
begin
<a.alt>
end
<endif>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  /* <fileName>:<description> */
  begin
  Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
  <root:rewriteElement()>
  <children:rewriteElement()>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
  end;
  >>

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());<
  >>

/*

Open Source Used In imicampaign 6.2.0  2585

*/
/** 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,args) ::= <<
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>;<
>>

/** 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>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<
>>

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

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>);<
>>
rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;\n>>

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

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

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode, Root[<treeLevel>]) as I<ASTLabelType>;\n>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode, Root[<treeLevel>]) as I<ASTLabelType>;\n>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
  <! new MethodNode(IDLabel, args) !>
  T<hetero>.Create(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
  Adaptor.CreateNode(<tokenType>, <args; separator=", "><if(!args)>'<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
  T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>, <args; separator=", "><endif>)
<else>
  <if(args)><! must create new node from old !>
  Adaptor.Create(<token>, <args; separator=", ">)
<else>
  (Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
<endif>
```cpp
/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** 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;
>>

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 <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>:
end;
<endif>
<else> <!-- rewrite mode -->
<if(backtracking)}>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>; <endif>
>>
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)> >>
/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then begin
<endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)> 
<listLabel(elem=label,...)> >>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>

Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>
}
>
>
>

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

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>

Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>
}
)
>>

// RULE REF AST

/*** rule auto construct **/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> ! rewrite mode !
}}
if (_First[treeLevel] = nil) then _First[treeLevel] := <label>.Tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)
>>

/** ~(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)
<if(!rewriteMode)
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[treeLevel] :=
Adaptor.BecomeRoot(<label>.Tree, Root[treeLevel]) as I<ASTLabelType>;
<endif>
<endif>
>>

/** ~(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrackAndListLabel(...)>
>>

/** ~(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRootTrack(...)>
>>

/** ~(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>
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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.
*  */
noreRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) { <endif>
<if(rewriteMode)>
reval.Tree = (<ASTLabelType>)._first_0;
if ( adaptor.GetParent(reval.Tree)!=null &
& adaptor.IsNil(adaptor.GetParent(reval.Tree)))
    reval.Tree = (<ASTLabelType>)adaptor.GetParent(reval.Tree);
<endif>
<if(backtracking)> } <endif>
>>

/** match ^ (root children) in tree parser; override here to
* add tree construction actions.

```plaintext
/

tree(root, actions:AfterRoot, 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>
                <endif>
            <actionsAfterRoot:element()>
            <if(nullableChildList)>
                if ( input.LA(1)==TokenTypes.Down ) {
                    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
                    <children:element()>
                        Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
                }<else>
                    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
                    <children:element()>
                    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
                <endif>
            <endif>
            <if(!rewriteMode)>
                adaptor.AddChild(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>)input.LT(1);
    <super.tokenRef(...)>>
```

---

Open Source Used In imicampaign 6.2.0 2596
/** 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)>
        _tree = new hetero<(label)>;
      <else>
        _tree = (<ASTLabelType>)adaptor.DupNode(<label>);
      </if>
    </if>
    adaptor.AddChild(root_<treeLevel>, _tree);
  </if>(backtracking)>}
  adaptors.AddChild(root_<treeLevel>, _tree);
  <if(backtracking)>{<endif>
      <else> <! rewrite mode !>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  </if>(backtracking)>}
>>

/** 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)>
        _tree = new hetero<(label)>;
      <else>
        _tree = (<ASTLabelType>)adaptor.DupNode(<label>);
      </if>
    </if>
    root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
  </if>(backtracking)>}
  <if(backtracking)>{<endif>
      <else> <! rewrite mode !>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  </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>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.matchSet(..., postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
 <if(hetero)>
 <label>_tree = new <hetero>({label});
<else>
 <label>_tree = (<ASTLabelType>)adaptor.DupNode({label});
<endif>
<\n>
 adaptor.AddChild(root_<treeLevel>, {label}_tree);
<if(backtracking)>}<endif>
<endif>
}
>>

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

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.matchSet(...)
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
 <super.matchSet(..., postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<endif>

//
```java
if(hetero)
    _tree = new hetero<>(label);
else
    _tree = (ASTLabelType)adaptor.DupNode(label);
endif

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

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRefRuleRoot(...)>
    <listLabel(elem=label."Tree",...)>
>>
```

---

Open Source Used In imicampaign 6.2.0 2599
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule.label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

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

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
* change NextToken to NextNode. */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>
<endif>
<endif>
<if(!rewriteMode)>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/antlr/codegen/templates/CSharp2/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

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*/

/** Add an adaptor property that knows how to build trees */
protected TreeAdaptor adaptor = new CommonTreeAdaptor();
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public Object getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels, ruleDescriptor.wildcardTreeListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)
@if(!rewriteMode)
root_0 = (<ASTLabelType>)adaptor.nil();<\n>
@endif>
@endif>
@endif>
>>

// Tracking Rule Elements
/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)><!-- Track implies no auto AST construction!-->
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
>

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

/** 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> ) {
<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>
<endif>
<if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef().tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef().tree = root_0;
<endif>
<endif>
<endif>
/** 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>
    }
>>
rewriteClosureBlock(  
alt,rewriteBlockLevel,  
referencedElementsDeep, // all nested refs  
referencedElements, // elements in immediately block; no nested blocks  
description) ::=  
<<  
// <fileName>:<description>  
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {  
  <alt>  
}  
<referencedElements:{el | stream_<el>.reset();<\n}> >  
>>

rewritePositiveClosureBlock(  
alt,rewriteBlockLevel,  
referencedElementsDeep, // all nested refs  
referencedElements, // elements in immediately block; no nested blocks  
description) ::=  
<<  
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {  
  throw new RewriteEarlyExitException();  
}  
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {  
  <alt>  
}  
<referencedElements:{el | stream_<el>.reset();<\n}> >  
>>

rewriteAlt(a) ::= <<  
// <a.description>  
<if(a.pred)>  
if (<a.pred>) {  
  <a.alt>  
} \n  <else>  
  {  
    <a.alt>  
  } \n  <endif>  
>>

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

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

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 ...) 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, ...)>);
>>

Open Source Used In imicampaign 6.2.0 2607
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) ::= <<
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/org/antlr/codegen/templates/Java/AST.stg
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group Dbg:

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*/

@parserBody.mixins() ::= <<
include ANTLR3::<if(profile)>Profile<else>Debug<endif>::ParserEvents
>>

@parserBody.additionalMembers() ::= <<
@if(grammar.grammarIsRoot>
RULE_NAMES = [ :invalid_rule, <grammar.allImportedRules:{rST|:<rST.name>}; wrap="\n  ", separator=" ", " > ].freeze
@endif
>>

@rule.body() ::= <<
in_rule(grammar_file_name, "<ruleName>") do
  @debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
  #@super.body()
  @debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
end
>>

// Common debug event triggers used by region overrides below
enterSubRule() ::= <<
in_subrule(<decisionNumber>) do<
>>

Open Source Used In imicampaign 6.2.0 2610
exitSubRule() ::= <<
  end\n>>

enterDecision() ::= <<
  in_decision(<decisionNumber>) do\n>>

exitDecision() ::= <<
  end\n>>

enterAlt(n) ::= <<
  in_alternative(<n>)\n>>

// Region overrides that tell various constructs to add debugging triggers
@block.body() ::= <<
  in_subrule(<decisionNumber>) do
    @@super.body()
  end
>>

  // @blockBody.predecision() ::= "<enterSubRule()>
  // @blockBody.postdecision() ::= "<exitDecision()>
  // @blockBody.postbranch() ::= "<exitSubRule()>
@blockBody.decision() ::= <<
  in_decision(<decisionNumber>) do
    @@super.decision()
  end
>>

@ruleBlock.decision() ::= <<
  in_decision(<decisionNumber>) do
    @@super.decision()
  end\n>>

@ruleBlockSingleAlt.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)"
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>
>>

Open Source Used In Imicampaign 6.2.0 2614
/** 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) ::= <<
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, <createNodeFromToken(...)>, root_0));)
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<label>.tree);
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...))
<listLabelAST(...)

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...))
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>} <endif>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...))
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>} <endif>

createNodeFromToken(label,hetero) ::= <<
<if(hetero))
<hetero>New(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
<endif>

ruleCleanUp() ::= <<
<super.ruleCleanUp(...))
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{<n>
<endif>
<if(!ruleDescriptor.isSynPred)> retval.stop = LT(-1);<n>
<endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<if(backtracking)>
  }<\n>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/ASTParser.stg

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*/

/** Templates for building ASTs during tree parsing.
 * 
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label  (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var _first_0:<ASTLabelType> = null;
var _last:<ASTLabelType> = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
 retval.tree = <ASTLabelType>(_first_0);
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
   retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  {
    var _save_last_<treeLevel>:<ASTLabelType> = _last;
    var _first_<treeLevel>:<ASTLabelType> = null;
    <if(!rewriteMode)>
      var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
    <endif>
    <root:element()>
    <if(rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
      <if(root.el.rule)>
        if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
      <else>
        if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
      <endif>
    <endif>
  }<\n>
>>
<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()>
</if>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);<endif>
_last = _save_last_<treeLevel>;<
>
}>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add */
*t 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>
<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>
>>
/** 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)> 
<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) ::= << 
<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)> 
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> } ] <endif>
<else> <! rewrite mode !>
<if(backtracking)> if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif> 
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= << 
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(...., postmatchCode={
<if(!rewriteMode>)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero>)
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif>
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> =  
<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 */
/** 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>
    </if>    </endif>
>>

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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/ANTLRTokenTypes.java
  * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/ANTLRParser.java
  * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/grammar/v2/CodeGenTreeWalkerTokenTypes.java
  * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/ANTLRTreePrinter.java
  * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/grammar/v2/DefineGrammarItemsWalker.java
  * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/grammar/v2/DefineGrammarItemsWalkerTokenTypes.java
  * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/ANTLRTreePrinterTokenTypes.java

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

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*/

/*
 *  Template group file for the Objective C code generator.
 *  Heavily based on Java.stg
 *
 *  Written by Kay Roepke <kroepke@classdump.org>
 *  Modified by Alan Condit <acondit@ipns.com>
 *
 *  This file is part of ANTLR and subject to the same license as ANTLR itself.
 */

group ObjC implements ANTLRCore;

objcTypeInitMap ::= [
  "int" : "0",    // Integers start out being 0
  "long" : "0",   // Longs start out being 0
  "float" : "0.0", // Floats start out being 0
  "double" : "0.0", // Doubles start out being 0
  "BOOL" : "NO",   // Booleans start out being Antlr ObjC for false
  "byte" : "0",    // Bytes start out being 0
  "short" : "0",   // Shorts start out being 0
  "char" : "0",    // Chars start out being 0
  "id" : "nil",    // ids start out being nil
  default : "nil", // anything other than an atomic type
]

className() ::= "<name><!<!if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>"
leadIn(type) ::=
  <<
  /** \file
  *  This <type> file was generated by $ANTLR version <ANTLRVersion>
  *
  *  - From the grammar source file : <fileName>
* - On: <generatedTimestamp>

<if(LEXER)>
* - for the lexer: <name>Lexer
<endif>

<if(PARSER)>
* - for the parser: <name>Parser
<endif>

<if(TREE_PARSER)>
* - for the tree parser: <name>TreeParser
<endif>

* Editing it, at least manually, is not wise.
*
*
*
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

outputFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
literals
)

<<<
<leadIn("OBJC source")>
*/

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

<if(actions.(actionScope).header)

/* ================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.*/
/* ================
*/
<endif>

/* ================
* Include the ANTLR3 generated header file.
*/
#import "<name>"<!if(LEXER)>Lexer<!else><if(TREE_PARSER)>Tree<!endif>!Parser<!endif>!.h"
<actions.(actionScope).postinclude>
/* ................................. */

<docComment>

<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with.
 * C will normally just lay down 8 bit characters, and you can use L"xxx" to
 * get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
 * we perform this little trick of defining the literals as arrays of UINT32
 * and passing in the address of these.
 */
<literals:{static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">}

<endif>

/* ................................. */

/* ................................. */

* Start of recognizer
*/

<recognizer>

/* End of code
 * ................................. */

>> headerFileExtension() ::= ".h"

headerFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
):=

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

<@imports>
<actions.(actionScope).preincludes>
/*
* Standard antlr3 OBJC runtime definitions
*/
#import \<Cocoa/Cocoa.h>
#import "antlr3.h"
/* End of standard antlr3 runtime definitions
*/
<actions.(actionScope).includes>
<@end>

@if(LEXER)>
<lexerHeaderFile(...)>
@end>

@if(PARSER)>
<parserHeaderFile(...)>
@end>

@if(TREE_PARSER)>
<treeParserHeaderFile(...)>
@end>

<docComment>
>>

lexerHeaderFile( LEXER,
PARSER,
TREE_PARSER,
tokenScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memorize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass="ANTLRParser"
) ::= <<
/* Start cyclicDFAInterface */
<cyclicDFAs:cyclicDFAInterface()>

#pragma mark Rule return scopes start
<rules:{rule |
<rule:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}>}
}
#pragma mark Rule return scopes end
#pragma mark Tokens
<tokens:{#define <it.name> <it.type>}; separator="\n">
<! @interface <grammar.recognizerName> <@superClassName>: <superClass><@end> { !>
@interface <className()> <@superClassName>: <superClass><@end> { // line 283
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{pred | SEL <pred>Selector;}; separator="\n">
// start of actions.lexer.memVars
<actions.lexer.memVars>
// start of action-actionScope-memVars
<actions.(actionScope).memVars>
}
+ (<className()> *)new<className()>WithCharStream:(id<ANTLRCharStream>)anInput;

<actions.lexer.methodsdecl>
<rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()> }>)<if(!rule.ruleDescriptor.isSynPred)>m<rule.ruleName><else><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope
:parameterScope(scope=it)><endif>; }; separator="\n">"\n>
headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>
headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>
// Produce the lexer output
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    labelType="id<ANTLRToken>",
    filterMode,
    superClass="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
!>
@end /* end of <className()> interface */

+ (<grammar.recognizerName>
*)new<grammar.recognizerName>WithCharStream:(id)<ANTLRCharStream>anInput
{
  return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}

- (id) initWithCharStream:(id)<ANTLRCharStream>anInput
{
  if ((self = [super initWithCharStream:anInput State:[ANTLRRecognizerSharedState
newANTLRRecognizerSharedStateWithRuleLen:<numRules>+1]]) != nil) {
    <if(memoize)>
      if ( state.ruleMemo == nil ) {
        state.ruleMemo = [[ANTLRRuleStack newANTLRRuleStackWithSize:<numRules>+1] retain];
      }
      if ( [state.ruleMemo count] == 0 ) {
        // initialize the memoization cache - the indices are 1-based in the runtime code!
       ;! [state.ruleMemo addObject:[NSNull null]]; // dummy entry to ensure 1-basedness. !>
        for (NSInteger i = 0; i < <numRules>; i++) {
          [state.ruleMemo addObject:[ANTLRHashRule newANTLRHashRuleWithLen:17]];
        }
      }
    </if(memoize)>

    <synpreds:{pred | <lexerSynpred(name=pred)>};separator="\n">
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
    <actions.lexer.init>
    return self;

    }

    <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
    <actions.lexer.dealloc>
    [super dealloc];

    /* Start of actions.lexer.methods */
    <actions.lexer.methods>
    /* start methods() */
    <@methods()>

    <if(actions.lexer.reset)>
    - (void) reset
    {
    <actions.lexer.reset>
    [super reset];
@end /* end of <grammar.recognizerName> implementation line 397 */

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
- (id<ANTLRToken>) nextToken
|
   while (YES) {
      if ( [input LA:1] == ANTLRCharStreamEOF ) {
         return [ANTLRCommonToken eofToken];
      }
      state.token = nil;
      state.channel = ANTLRTokenChannelDefault;
      state.tokenStartCharIndex = [input getIndex];
      state.tokenStartCharPositionInLine = [input getCharPositionInLine];
      state.tokenStartLine = [input getLine];
      state.text = nil;
      @try {
         NSInteger m = [input mark];
         state.backtracking = 1; /* means we won't throw slow exception */
         state.failed = NO;
         [self mTokens];
         state.backtracking = 0;
         /* mTokens backtracks with synpred at backtracking==2
          and we set the synpredgate to allow actions at level 1. */
         if ( state.failed == YES ) {
            [input rewind:m];
            [input consume]; /* advance one char and try again */
         } else {
            [self emit];
            return state.token;
         }
      } @catch (ANTLRRecognitionException *re) {
         // Handle possible error here...
// 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(...)>>
>>

genericParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
typedef enum {
  ANTLR_EOF = -1,
  INVALID,
  EOR,
  DOWN,
  UP,
  MIN
} ANTLR3TokenType;

@interface <grammar.recognizerName> <@superClassName>: <superClass> <@end> { /* line 572 */

@end
/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    cyclicDFAs, // parser init -- initializes the DFAs
    bitsets,
    inputStreamType,
    superClass="ANTLRParser",
    ASTLabelType="ANTLRCommonTree",
    labelType="id<ANTLRToken>",
    members,
    rewriteElementType,
    filterMode
) ::= <<
  <cyclicDFAs:cyclicDFA()>
>>
#pragma mark Bitsets
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>

#pragma mark Dynamic Global Scopes
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeImpl(scope=it)><endif>}>}

#pragma mark Dynamic Rule Scopes
<rules:{rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeImpl(scope=it)>}>

#pragma mark Rule return scopes start
<rules:{rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>}>}>

@implementation <grammar.recognizerName>  // line 637

+(void)initialize
{
#pragma mark Bitsets
<bitsets:bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
[ANTLRBaseRecognizer setTokenNames:[ NSArray alloc] initWithObjects:@"<invalid>", @"<EOR>", @"<DOWN>", @"<UP>", <tokenNames:{@<it>}; separator=" ", wrap="\n ", nil] retain];
<synpreds:{pred | <synpred(pred)>}>
}

+(<grammar.recognizerName> *)new<grammar.recognizerName>:(<inputStreamType>)aStream
{
@if(PARSER)>
return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
#else><! TREE_PARSER !>
return [[<grammar.recognizerName> alloc] initWithStream:aStream];
@end
}

@if(PARSER)>
- (id)initWithTokenStream:(<inputStreamType>)aStream
{
 <else>! TREE_PARSER !>
- (id)initWithStream:(<inputStreamType>)aStream
{
 <endif>
}
/* start of actions-actionScope-init */
<actions.(actionScope).init>
/* start of init */
@@init()
}
return self;
}

- (void) 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 !>
@end>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
>>

parser( grammar,
   name,
   scopes,
   tokens,
   tokenNames,
   rules,
   numRules,
treeParser( grammar, 
   name, 
   scopes, 
   tokens, 
   tokenNames, 
   globalAction, 
   rules, 
   numRules, 
   bitsets, 
   ASTLabelType="ANTLRCommonTree", 
   superClass={ <if(filterMode)><if(buildAST)>ANTLRTreeRewriter<else>ANTLRTreeFilter<endif><else>ANTLR 
   TreeParser<endif> }, 
   labelType="ANTLRCommonTree", 
   members={ <actions.treeparser.members> }, 
   filterMode 
) ::= <<
<genericParser(inputStreamType="id\<ANTLRTokenStream>", rewriteElementType="ANTLRCommonToken", ...)>
>>

/** 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>];

} // $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()>
<ruleDescriptor.actions.init>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
@catch (ANTLRRecognitionException *re) {
[self reportError:re];
[self recover:input Exception:re];
<@setErrorReturnValue()>
}
<endif>
<endif>
<endif>
@finally {
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);
NSLog(@"exit <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], state.failed ? @"YES" : @"NO",
state.backtracking);<endif>
<memoize()>

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finalCode(finalBlock) ::= <<
{
  <finalBlock>
}
>>
catch(decl,action) ::= <<
@catch (<e.decl>) {
  <e.action>
}
>>
ruleDeclarations() ::= <<
@if(ruleDescriptor.hasNextReturnValues)
<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(typeName=returnType())><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];
@end
>>

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.ruleListLabels: ruleLabelDef(label=it); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels] 
 :(labelType> *<it.label.text>=nil;}; separator="\n"
>
<ruleDescriptor.charLabels: [NSInteger <it.label.text>;]; separator="\n">
<ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels]: {NSMutableArray *list_<it.label.text>=nil; }; separator="\n"
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
// token+rule list labels
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]: {[list_<it.label.text> release];}; separator="\n">
<if(!ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[retval setStop:[input LT:-1]];<\n>
<endif>
<endif>
>>
@finally {
//<if(trace)>[self traceOut:[NSString stringWithFormat:@"<ruleName> %d\n",
<ruleDescriptor.index>]];<endif>
<if(trace)>NSLog(@"exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
[input LA:1], [self getLine], [self getCharPositionInLine],
(state.failed==YES) ? @"YES" : @"NO", state.backtracking);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
return;
}
// $ANTLR end "<ruleName>"
>>
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
<block><\n>
}
>>
// S U B R U L E S
/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // block
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
}
<@postbranch()>
>>
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> //ruleblock
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>

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switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>::<description> // ruleBlockSingleAlt
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

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

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description> // positiveClosureBlock
    NSInteger cnt<decisionNumber>=0;
    <decls>
    <@preloop()>
    do {
        NSInteger alt<decisionNumber>=<maxAlt>;
        <@predecision()>
        <decision>
        <@postdecision()>
        switch (alt<decisionNumber>) {
            <alts:altSwitchCase()>
            default :
                if ( cnt<decisionNumber> >= 1 )
                    goto loop<decisionNumber>;
            <if(backtracking)>
            <ruleBacktrackFailure()>
            </if(backtracking)>
        }<endif>
        ANTLREarlyExitException *eee = [ANTLRREarlyExitException exceptionWithStream:input decisionNumber:<decisionNumber>];
        <@earlyExitException()>
        @throw eee;
    }<loop>
cnt<decisionNumber>++;  
} while (YES);  
loop<decisionNumber>: ;  
}@postloop()  
>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<  
<decls>  
}@preloop()  
do {  
NSInteger alt<decisionNumber> =<maxAlt>;  
}@predecision()  
<decision>  
}@postdecision()  
switch (alt<decisionNumber>) {  
alts:altSwitchCase()  
default :  
    goto loop<decisionNumber>;  
}  
} while (YES);  
loop<decisionNumber>: ;  
}@postloop()  
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation  
* so we can just use the normal block template  
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative  
* number. A DFA predicts the alternative and then a simple switch  
* does the jump to the code that actually matches that alternative.  
*/
altSwitchCase() ::= <<  
case <i> ::  
}@prealt()  
<i>  
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) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
    <@prematch()>
    <it.el> /* element() */
    <\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
    <if(label)><label>=(<labelType> *)<endif>[self match:input TokenType:<token>
    Follow:FOLLOW_<token>_in_<ruleName><elementIndex>]; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
    <tokenRef(...)>
    <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> == nil) list_<label> = [[NSMutableArray arrayWithCapacity:5] retain];
[list_<label> addObject:<elem>]; <\n>
>>

/** match a character */
charRef(char,label) ::= <<
    <if(label)>
    NSInteger <label> = [input LA:1]; <\n>
    <endif>
    [self matchChar:<char>]; <checkRuleBacktrackFailure()><\n>
>>
/** match a character range */
charRangeRef(a,b,label) ::= "$$
<if(label)>
<label> = [input LA:1];\n</label>
<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)>
<label> = [input LA:1];\n</label>
<else>
<label> = (<labelType> *)[input LT:1];\n</label>
<endif>
<endif>
if (<s>) {
    [input consume];
    <postmatchCode>
    <if(!LEXER)>
    [state setIsErrorRecovery:NO];
    <endif>
    <if(backtracking)>state.failed = NO;\n</if>
} else {
    <ruleBacktrackFailure()>
    ANTLRMismatchedSetException *mse = [ANTLRMismatchedSetException exceptionWithSet:nil stream:input];
    <!-- mismatchedSetException() -->
    <if(LEXER)>
    [self recover:mse];
    @throw mse;
    <else>
    @throw mse;
    <!-- use following code to make it recover inline; remove throw mse;
    [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>;]
    !>
    <endif>
}\n>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= "$$
<matchSet(...)>
<listLabel(elem=label,...)>
>>
/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
NSInteger <label>Start = [self getIndex];
[self matchString:<string>]; <checkRuleBacktrackFailure()>
<label> = [[ANTLRCommonToken newANTLRCommonToken:input Type:ANTLRTokenTypeInvalid Channel:ANTLRTokenChannelDefault Start:<label>Start Stop:[self getIndex]] retain];
<else>
[self matchString:<string>]; <checkRuleBacktrackFailure()></
<endif>
>>

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)>
NSInteger <label> = [input LA:1];<
<endif>
[self matchAny:input]; <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>];<
<<nostyle>Open Source Used In imicampaign 6.2.0 2652</nostyle>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label,...)>
>>

/** A lexer rule reference.
* 
*  The 'rule' argument was the target rule name, but now
*  is type Rule, whose toString is same: the rule name.
*  Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
  <if(label)>
  NSInteger <label>Start<elementIndex> = [self getIndex];
  [self m<rule.name><if(args)>:<args; separator=" ">
  <checkRuleBacktrackFailure()><
  <label> = [[ANTLRCommonToken newANTLRCommonToken:input Type:ANTLRTokenTypeInvalid
  Channel:ANTLRTokenChannelDefault Start:<label>Start<elementIndex> Stop:[self getIndex]-1]
  retain];
  <label> setLine:[self getLine];
  <else>
  [self m<rule.name><if(args)>:<args; separator=" ">
  <checkRuleBacktrackFailure()><
  <![endif]>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
  NSInteger <label>Start<elementIndex> = [self getIndex];
  [self matchChar:ANTLRCharStreamEOF; <checkRuleBacktrackFailure()><
  <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()><
  <![endif]>>
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == DOWN ) {
 [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
 [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
 [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
 [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 *  also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
 <ruleBacktrackFailure()>
 @throw [ANTLRFailedPredicateException exceptionWithRuleName:@"<ruleName>",
predicate:@"<description>" stream:input];
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 ANTLRNoViableAltException *nva = [ANTLRNoViableAltException
 newANTLRNoViableAltException:<decisionNumber> state:<stateNumber> stream:input];
 <@noViableAltException()>
 @throw nva;</n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<
>edges; separator="nelse ">
>>
/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="nelse ">
<iif(eotPredictsAlt)>
<if(!edges)>
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 */
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>]) {

```c
<edges; separator="\n">\ndefault: ;
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
        ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
        newANTLRNoViableAltException:<decisionNumber> state:<stateNumber> stream:input];
        @noViableAltException() 
        @throw nvae;\n    </endif>
</\n>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch ([input LA:<k>]) {
        <edges; separator="\n">\n    }\n}>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch ([input LA:<k>]) {
        <edges; separator="\n">\n        <if(eotPredictsAlt)>
            default: ;
            alt<decisionNumber> = <eotPredictsAlt>
            break;\n        </endif>
    }\n}>>

dfaEdgeSwitch(labels, targetState) ::= <<
    <labels:{case <it>: ;}; separator="\n">\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 {
  + newDFA<dfa.decisionNumber>WithRecognizer:(ANTLRBaseRecognizer *)theRecognizer;
  - initWithRecognizer:(ANTLRBaseRecognizer *)recognizer;
@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
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>
@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
  {<dfa.eot; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
  {<dfa.eof; wrap="\n    ", separator=",", null="-1">};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
  {<dfa.min; wrap="\n    ", separator=",", null="0">};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
  {<dfa.max; wrap="\n    ", separator=",", null="0">};
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
  {<dfa.accept; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
  {<dfa.special; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_transition[] = {};
<dfa.edgeTransitionClassMap.keys:{ table |
  const static NSInteger dfa<dfa.decisionNumber>_transition<i0>[] = {<table; separator=", ", wrap="\n    ", null="-1">};
}; null="">

+ () newDFA<dfa.decisionNumber>WithRecognizer:(ANTLRBaseRecognizer *)aRecognizer
{
  return [[[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer] retain];
}

- (id) initWithRecognizer:(ANTLRBaseRecognizer *)theRecognizer

{if ((self = [super initWithRecognizer:theRecognizer]) != nil) {
    decisionNumber = <dfa.decisionNumber>;
    eot = dfa<dfa.decisionNumber>_eot;
    eof = dfa<dfa.decisionNumber>_eof;
    min = dfa<dfa.decisionNumber>_min;
    max = dfa<dfa.decisionNumber>_max;
    accept = dfa<dfa.decisionNumber>_accept;
    special = dfa<dfa.decisionNumber>_special;
    if (!(transition = calloc(<dfa.numberOfStates>, sizeof(void*)))) {
        [self release];
        return nil;
    }
    len = <dfa.numberOfStates>;
    <dfa.transitionEdgeTables:{whichTable|transition[<i0>] =
      dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null=""}>
- (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.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
    /* cyclicDFAState */
    NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    NSInteger index<decisionNumber>_<stateNumber> = [input getIndex];
    [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) ::= <<
    /* cyclicDFAEdge */
    if (labelExpr)<if(predicates)> && (<predicates>)<endif>) { s = <targetStateNumber>; }<endif>
>>

/** An edge pointing at end-of-token; essentially matches any char; *
 * always jump to the target.
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
/* eotDFAEdge */
s = <targetStateNumber>:<n>
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "((first(operands)<rest(operands): [0 ||<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="\"||\"">"

// ATTRIBUTES

globalAttributeScopeDecl(scope) ::= <<
@interface <scope.name>_Scope : ANTLRSymbolsScope { /* globalAttributeScopeDecl */

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<if(scope.attributes>)
<scope.attributes:{a[@property (retain, getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>:]; separator="\n"}<\n>
<endif>
}
<if(scope.attributes)>/* start of properties */<\n>
<scope.attributes:{a|- (<a.type>)get<a.name>; <\n>- (void)set<a.name>:(<a.type>)aVal;}; separator="\n"}<\n>
/* end properties */<\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>; - (void)set<a.name>:(<a.type>)aVal;}; separator="\n"}<\n>
/* End of iterated get and set functions */<\n>
@end /* end of <scope.name>_Scope interface */

>>

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 */

>>

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];

ruleAttributeScopeDecl(scope) ::= <<
@if(scope.attributes)
@interface <scope.name>_Scope : ANTLRSymbolsScope {
! (* ruleAttributeScopeDecl */</n>
<! (scope.attributes:{<it.decl>;}; separator="\n"> !>
</scope.attributes:{a|[a.name] <a.type>;}; separator="\n"></n>
@if(scope.attributes)
/<scope.attributes:{a|@property (getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;}; separator="\n"></n>
/* end properties */</n>
@end /* end of <scope.name>_Scope interface */</n>
@if(scope.attributes)
<<
@end /* end of <scope.name>_Scope interface */</n>
>>

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"></n>
@end /* end of <scope.name>_Scope interface */</n>
@end /* end of <scope.name>_Scope interface */
@if(scope.attributes)
<<
@end /* end of <scope.name>_Scope interface */
>>

ruleAttributeScopeInit(scope) ::= <<
/* ruleAttributeScopeInit */
<scope.name>_scope = [[<scope.name>_Scope alloc] init] retain;
>>

 ANTLSymbolStack *gStack = [ANTLRSymbolStack newANTLRSymbolStackWithLen:30];
ruleAttributeScopeDecl(scope) ::= <<
@if(scope.attributes)
@interface <scope.name>_Scope : ANTLRSymbolsScope {
! (* ruleAttributeScopeDecl */</n>
<! (scope.attributes:{<it.decl>;}; separator="\n"> !>
</scope.attributes:{a|[a.name] <a.type>;}; separator="\n"></n>
@if(scope.attributes)
/<scope.attributes:{a|@property (getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;}; separator="\n"></n>
/* end properties */</n>
@end /* end of <scope.name>_Scope interface */</n>
@if(scope.attributes)
<<
@end /* end of <scope.name>_Scope interface */</n>
>>

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"></n>
@end /* end of <scope.name>_Scope interface */</n>
@end /* end of <scope.name>_Scope interface */
@if(scope.attributes)
<<
@end /* end of <scope.name>_Scope interface */
>>

ruleAttributeScopeInit(scope) ::= <<
/* ruleAttributeScopeInit */
<scope.name>_scope = [[<scope.name>_Scope alloc] init] retain;
>>
ruleAttributeScopeDealloc(scope) ::= <<
[<scope.name>_Scope release];
>>

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

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

returnType() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> *
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
void
<endif>
>>

/** Generate the Objective-C type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.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)> <label.label.text> =
  <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;\n
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScopeInterface(scope) ::= <<
  /* returnScopeInterface */
  @interface <ruleDescriptor:returnStructName()> :ANTLR<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope { /* returnScopeInterface line 1806 */
  <@memVars()> /* start of memVars */
  <if(scope.attributes)>
  <scope.attributes:{a|<a.type> <a.name>;}; separator="\n">\n  </if>
  /* end memVars */<\n>
  </if>
  /* start properties */
  <if(scope.attributes)>
  <scope.attributes:{a|@property (getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;}; separator="\n">\n  </if>
  /* end properties */<\n>
  </if>
  + (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>;
  /* this is start of set and get methods */
  <@methodsDecl()> /* methodsDecl */
  <if(scope.attributes)>
  /* start of iterated get and set functions */
  <scope.attributes:{a|<a.type> get<a.name>;}
  - (void)set<a.name>: (<a.type>)aVal;}; separator="\n">\n  // End of iterated get and set functions<\n>
  </if>
  @end /* end of returnScopeInterface interface */<\n>
  </if>
>>

returnScope(scope) ::= <<
  /* returnScope */
  <if(ruleDescriptor.hasMultipleReturnValues)>
/>
@implementation <ruleDescriptor:returnStructName()> /* returnScope */
@end /* end of returnScope implementation */
<@methods()>
/* scopeSetAttributeRef */
@if(negIndex)
((<scope>_Scope *)[gStack objectAtIndex:[gStack size]-<negIndex>-1]).<attr.name> =<expr>;
@else
@if(index)
((<scope>_Scope *)[gStack objectAtIndex:<index>]).<attr.name> = <expr>;
@else
((<scope>_Scope *)[gStack peek]).<attr.name> = <expr>;
@endif
@endif
@>>

scopeAttributeRefStack() ::= @<<
/* scopeAttributeRefStack */
@if(negIndex)
((<scope>_scope *)[^scope>Stack objectAtIndex:[^scope>Stack count]-<negIndex>-1]).<attr.name> = <expr>;
@else
@if(index)
((<scope>_scope *)[^scope>Stack objectAtIndex:<index>]).<attr.name> = <expr>;
@else
[^scope>Stack peek].<attr.name> = <expr>;
@endif
@endif
@>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {\$function.size()>0 && \$function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "[^scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= @<<
@if(referencedRule.hasMoreReturnValues)
(\$scope!=nil?\$scope.<attr.name>:\$initValue(attr.type))
@else
\$scope
@endif
@endif
@>>

returnAttributeRef(ruleDescriptor,attr) ::= @<<
@if(ruleDescriptor.hasMoreReturnValues)
retval.<attr.name>; /* added to returnAttributeRef */
@else
<attr.name>
@endif
@>>
returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
    <if>(ruleDescriptor.hasMultipleReturnValues)
    retval.<attr.name> = <expr>; /* added to returnSetAttributeRef */
    <else>
    <attr.name> = <expr>;
    <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :( 

tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!=nil?[<scope> getText]:0)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=nil?[<scope> getType]:0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!=nil?[<scope> getLine]:0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=nil?[<scope> getCharPositionInLine]:0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=nil?[<scope> getChannel]:0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!=nil?[<scope> getTokenIndex]:0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!=nil?[<scope> getText] integerValue]:0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!=nil?[<ASTLabelType> *]<scope>.startToken):nil)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!=nil?[<ASTLabelType> *]<scope>.stopToken):nil)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!=nil?[<ASTLabelType> *]<scope>.tree):nil)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
    <if>(TREE_PARSER)"(<scope>!=nil?[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor] getTokenStartIndex:[<scope> getStart]] ToEnd:[[[input getTreeAdaptor] getTokenStopIndex:[<scope> getStart]]]:nil)"
    <else>
    (<scope>!=nil?[<input toStringFromStart:[<scope> getStart] ToEnd:[<scope> getStop]]]:nil)
    <endif>
>>
ruleLabelPropertyRef_st(scope, attr) ::= "(<scope>!=nil?[<scope> st]:nil)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "(<scope>!=nil?[<scope> getType]:0)"
lexerRuleLabelPropertyRef_line(scope, attr) ::= "(<scope>!=nil?[<scope> getLine]:0)"
lexerRuleLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=nil?[<scope> getCharPositionInLine]:0)"
lexerRuleLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=nil?[<scope> getChannel]:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=nil?[<scope> getText]:nil)"
lexerRuleLabelPropertyRef_int(scope,attr) ::="(<scope>!=nil?[<scope> text] integerValue]:0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType> *)retval.startToken)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType> *)retval.stopToken)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
[<input getTokenStream] toStringFromStart:[<input getTreeAdaptor] getTokenStartIndex:retval.start] ToEnd:[<input getTreeAdaptor] getTokenStopIndex:retval.start]
<else>
[input toStringFromToken:retval.start ToToken:[input LT:-1]]
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "[state setText:<expr>]";
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "[state getTokenStartLine]"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "[state getCharPositionInLine]"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "[state setChannel:<expr>]";
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "[state getTokenStartCharIndex]"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "[(self getIndex]-1)"

lexerRulePropertyRef_text(scope,attr) ::= "[self getText]"
lexerRulePropertyRef_type(scope,attr) ::= "[state getType]"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "[(self getIndex]-1)"
lexerRulePropertyRef_int(scope,attr) ::= "[[<scope> getText] integerValue]"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;" /* "\n"#error StringTemplates are unsupported<\n> */

/** How to execute an action */
execAction(action) ::= \<<
  \<if(backtracking)>
  \if ( \<actions.(actionScope).synpredgate> ) {
    \<action>
  \}
  \else
  \<action>
  \<endif>
\>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "\<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= \<<
  static ANTLRBitSet *\<name>;
  static const unsigned long long \<name>\_data[] = { \<words64>{\<it>LL};separator="", "\}>;\n\>>

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

codeFileExtension() ::= ".m"

true() ::= "YES"
false() ::= "NO"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```csharp
@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; } }
>>

/** 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)>
    <super.alt.declarations()>
    </if(autoAST)>
    </if(outerAlt)>
    </if(!rewriteMode)>
>>

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// 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>);
</if>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefTrack(...)>
  <listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);
</if>
>>

/** 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);
</if>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)>
  <listLabel(elem=label+".Tree","...))
</if>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>
// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<
{
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef()>.Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last),
retval.Tree);
<endif>

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> rewriteCodeLabels() ::= <<
<referencedTokenLabels
   :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);};
   separator="\n"
>
<referencedTokenListLabels
   :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);};
   separator="\n"
>
<referencedWildcardLabels
   :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);};
   separator="\n"
>
<referencedWildcardListLabels
   :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>);};
   separator="\n"
>
<referencedRuleLabels
   :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null);};
   separator="\n"
>
<referencedRuleListLabels
   :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>);};
   separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks. */
/*
 rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::= <<
 // <fileName>:<description>
 if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||"> )
 {
 <alt>
 }
 <referencedElementsDeep:{el | stream_<el>.Reset();
 }> >>

 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>
<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>);
  }
>>

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>);<\n>>

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

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

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

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

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

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
    adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>>

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

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

rewriteNodeActionRoot(action) ::= <<

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root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>
rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

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Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp3/AST.stg
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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() ::= <<
>>

createrListenerAndHandshake() ::= <<
  <super.createListenerAndHandshake()>
>>

ctorForPredefinedListener() ::= <<
>>

@rewriteElement.preUnique() ::= ""

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/ASTDbg.stg
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*/
group ActionScript implements ANTLRCore;
asTypeInitMap ::= [
    "int":"0",
    "uint":"0",
    "Number":"0.0",
    "Boolean":"false",
    default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synPreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> {
        <actions.(actionScope).header>
        <@imports>
        import org.antlr.runtime.*;
        <if(TREE_PARSER)>
        import org.antlr.runtime.tree.*;
        </if>
        <docComment>
        <recognizer>
    }
    >>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
    public class <grammar.recognizerName> extends
    <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
    <@end><endif> {
        <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
        <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
        <actions.lexer.members>
    // delegates
    <grammar.delegates:
        {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"}
/** 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>
    <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates: {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"}
    // delegators
    <grammar.delegators: {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"}
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}></last>
    <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>,
        }); separator="\n"
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>this,
        input, this.state);}; separator="\n"}
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;};
        separator="\n"}
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}>
  }
    <@end>

    public override function get tokenNames():Array { return
        <grammar.composite.rootGrammar.recognizerName>.tokenNames; } 
    public override function get grammarFileName():String { return "<fileName>"; }
    <members>

    <rules; separator="\n\n">

    <! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>

// Delegated rules
<grammar.delegatedRules:{ruleDescriptor}>
  public function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType>() {
    <if(ruleDescriptor.hasReturnValue)>return <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "); separator="\n">

  <synpreds:{p | <synpred(p)>>}

  <cyclicDFAs:cyclicDFA()>.<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, rules, numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser", members={<actions.treeparser.members>}, filterMode) ::= <<
  <genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc.... just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
    <ruleLabelDefs()>
    <if(trace)>
        traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
        try {
            <block>
        }
        finally {
            traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
        }
    <else>
        <block>
    <endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final function <name>():Boolean {
    this.state.backtracking++;
    <@start()>
    var start:int = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
        trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
    <@stop()>
    this.state.backtracking--;
    this.state.failed=false;
    return success;
} <\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue();
}
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type *
* data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
// $ANTLR start <ruleName>
// <fileName>:<description>
public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType>() {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
@preamble() 
try {
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<@setErrorReturnValue()>
}<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
>}
</if(!emptyRule)
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (re:RecognitionException) {
    reportError(re);
    recoverStream(input,re);
    <@setErrorReturnValue()>
}<in>
<endif>
<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 @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"
>>
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(!TREE_PARSER)>
if (ruleDescriptor.hasMultipleReturnValues)
<endif>
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)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        this.state.type = _type;
        this.state.channel = _channel;
        <(ruleDescriptor.actions.after):execAction()>
    <endif>
}
finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}
// $ANTLR end <ruleName>
>>

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

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
#@predecision() 
<decision>
#@postdecision() 
#@prebranch() 
switch (alt<decisionNumber> ) { 
    <alts:altSwitchCase()>
} 
#@postbranch() 
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
#@predecision() 
<decision>
#@postdecision() 
switch (alt<decisionNumber> ) { 
    <alts:altSwitchCase()>
} 
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
#@prealt() 
<alts>
#@postalt() 
>>

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

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>:int=0;
<decls>
}@preloop()
loop<decisionNumber>:
do {
  var alt<decisionNumber>:int=<maxAlt>;
  @{predecision()}
  <decision>
  @{postdecision()}
  switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
      if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
      @{ruleBacktrackFailure()}
        throw new EarlyExitException(<decisionNumber>, input);
        @{! Need to add support for earlyExitException debug hook !}
      }
      cnt<decisionNumber>++;
  }
} while (true);
}@postloop()
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  <decls>
  @{preloop()}
  loop<decisionNumber>:
do {
    var alt<decisionNumber>:int=<maxAlt>;
    @{predecision()}
    <decision>
    @{postdecision()}
    switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
      break loop<decisionNumber>;
    }
  }
} while (true);
}@postloop()
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description>
  {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
  }
>>

/** What to emit when there is no rewrite. For auto build mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  <@prematch()>
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)> <label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><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);<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()> >>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=<labelType>(input.LT(1));<\n>
<endif>
<endif>
if ( <s> ) {
    input.consume();
    <postmatchCode>
    <if(LEXER)>
        this.state.errorRecovery=false;
    <endif>
    <if(backtracking)>this.state.failed=false;<endif>
} else {
    <ruleBacktrackFailure()>
    #@mismatchedSetException()
    <if(LEXER)>
        throw recover(new MismatchedSetException(null,input));<\n>
throw new MismatchedSetException(null,input);
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
>
<endif>
}<
>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
var <label>Start:int = charIndex;
mismatchString(<string>); <checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<else>
mismatchString(<string>); <checkRuleBacktrackFailure>()<
>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = <labelType>(input.LT(1));<
>
<endif>
mismatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<
>
<endif>
mismatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*
* GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
*
See: https://bugs.adobe.com/jira/browse/ASC-3625
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */

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lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>  
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
 var <label>Start<elementIndex>:int = charIndex;
 match(EOF); <checkRuleBacktrackFailure()>
 var <label>!:<labelType> = CommonToken.createFromStream(input, EOF,
 TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
 <else>
 match(EOF); <checkRuleBacktrackFailure()>
 <endif>
 >>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
 <root:element()>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if (input.LA(1)==TokenConstants.DOWN) {
      matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
    }
 <else>
 matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
 <endif>
 >>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred, description) ::= <<
 if ( !<evalPredicate(...)>) {
      <ruleBacktrackFailure()>
      throw new FailedPredicateException(input, "<ruleName>", "<description>");
    }
 >>

// F i x e d  D F A  (if-then-else)
dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
    alt<decisionNumber>=<eotPredictsAlt>;<\n>
    \}<
    <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <! Need to add hook for noViableAltException() !>
    <endif>
}
}>

/** Same as a normal DFA state except that we don't examine lookahead *
  * for the bypass alternative. It delays error detection but this *
  * is faster, smaller, and more what people expect. For (X)? people *
  * expect "if ( LA(1)==X ) match(X);" and that's it. */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure *
  * loop. If end-of-token (EOT) predicts any of the targets then it *
  * should act like a default clause (i.e., no error can be generated). *
  * This is used only in the lexer so that for ('a')* on the end of a rule *
  * anything other than 'a' predicts exiting. */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n> <edges; separator="\nelse ">
<if!(edges)>alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
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.
*/

```
daEdge(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().
  */

daStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch ( input.LA(<k>) ) {
    <edges; separator="\n">
    default:
      <if(eotPredictsAlt)>
        alt<decisionNumber>=<eotPredictsAlt>;
      <else>
        <ruleBacktrackFailure()>
        throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
      </if>
  }<\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;<\n>
    </if>
  }<\n>
>>

daEdgeSwitch(labels, targetState) ::= <<
  <labels; {case <it>}; separator="\n">
  <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, ...
*/
daDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>
cyclicDFACtor(dfa) ::= <<
dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
"<dfa.description>",
DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
DFA<dfa.decisionNumber>_specialStateTransition<endif>);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
private const DFA<dfa.decisionNumber>_eot:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap="\"+\n \"">");
private const DFA<dfa.decisionNumber>_eof:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap="\"+\n \"">");
private const DFA<dfa.decisionNumber>_min:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap="\"+\n \"">", true);
private const DFA<dfa.decisionNumber>_max:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap="\"+\n \"">", true);
private const DFA<dfa.decisionNumber>_accept:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap="\"+\n \"">";
private const DFA<dfa.decisionNumber>_special:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap="\"+\n \"">";
private const DFA<dfa.decisionNumber>_transition:Array = [ 
  <dfa.javaCompressedTransition:[s]DFA.unpackEncodedString("<s; wrap="\"+\n\"">")]; separator="\n">

```
private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:IntStream):int {
  var input:IntStream = _input;
  switch ( s ) {
    <dfa.specialStateSTs:{state |
      case <i0> : <! compressed special state numbers 0..n-1 !>
      <state>}; separator="\n">
  }
  throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
}

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="\nelse">
  <if(semPredState)> <! return input cursor to state before we rewound !>
  input.seek(index<decisionNumber>_<stateNumber>);</un>
  <endif>
  if ( s>=0 ) return s;
  break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ((labelExpr) if(predicates) && (predicates) endif) {s = targetStateNumber;}
>>

/** An edge pointing at end-of-token; essentially matches any char; */
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="||">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
  if(scope.attributes)>
  protected var <scope.name>:_stack:Array = new Array();<
>>
ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  protected var <scope.name>_stack:Array = new Array();
  <endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <returnStructName()>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
<<

/** Generate the Java type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <returnStructName()>
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
<<

delegateName() ::= <<
  <if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
  <asTypeInitMap.(typeName)>
>>
/** Define a rule label including default value */
ruleLabelDef(label) ::= «
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;«
»

/** 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
 <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
 <scope>_stack[<index>].<attr.name> =<expr>;
 @else
 <scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
@endif
@endif
»
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    (scope!=null?scope.values.<attr.name>:initValue(attr.type))
  <else>
    scope
  <endif>
<scope>
<attr.name>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.values.<attr.name>
  <else>
    <attr.name>
  <endif>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.values.<attr.name> =<expr>;
  <else>
    <attr.name> =<expr>;
  <endif>
<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) ::= "(<scope>!null?scope.text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!null?scope.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!null?scope.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!null?scope.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!null?scope.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!null?<scope>.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!null?int(<scope>.text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!null?<labelType><scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!null?<labelType><scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!null?><ASTLabelType><scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)>
    (<scope>!null?input.tokenStream.toStringWithRange(
      input.treeAdaptor.getTokenStartIndex(<scope>.start),
      input.treeAdaptor.getTokenStopIndex(<scope>.start))):null)
<else>
    (<scope>!null?input.toStringWithTokenRange(<scope>.start,<scope>.stop):null)
<endif>
"

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!null?<scope>.st.null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= 
    "(<scope>!null?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= 
    "(<scope>!null?<scope>.lien:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= 
    "(<scope>!null?<scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= 
    "(<scope>!null?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= 
    "(<scope>!null?<scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= 
    "(<scope>!null?<scope>.text:0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)>
    input.tokenStream.toStringWithRange(
      input.treeAdaptor.getTokenStartIndex(retval.start),
      input.treeAdaptor.getTokenStopIndex(retval.start))
<else>
    input.toStringWithTokenRange(retval.start,input.LT(-1))
"
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):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/antlr/codegen/templates/ActionScript/ActionScript.stg
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*/
/** Template overrides to add debugging to normal C output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg:

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)>
const char *
ruleNames[] =
{
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", »
};</n>
@endf
@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--;
}

if(profile)
{
  // Profiling not yet implemented for C target
  //

  if(grammar.grammarIsRoot)
  {
    ctorForPredefinedListener();
  }
  ctorForDelegateGrammar();
}

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
  DBG->semanticPredicate(DBG, result, predicate);
  return result;
}

@end

@genericParser.debugStuff() ::= <<
  if(grammar.grammarIsRoot)
  { createListenerAndHandshake();
  }
  <if(grammar.grammarIsRoot)>
  <createListenerAndHandshake()>
>>
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>);
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
if (getRuleLevel()==0) {
  DBG->terminate(DBG);
}
>>

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"
@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= "DBG->enterSubRule(DBG, <decisionNumber>);"
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()>

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@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)
 /**************************************************************************
 ** Force predicate validation to trigger an event */
 evalPredicate(pred,description) ::= <<
 evalPredicate(ctx, <pred>, (const char *)"<description>")
 >>

 Found in path(s):
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/Dbg.stg
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 */

 /** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */
 group ASTDbg:
// Implement this function in your helper file to use a custom tree adaptor

```java
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> <ln>
        <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}
        } <ln>
    } <ln>
}

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;
@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/antlr/codegen/templates/CSharp2/ASTDbg.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;
    if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
      retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
  <endif>
  <if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  {
    <ASTLabelType> _save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = null;
    <if(!rewriteMode)>
      <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <endif>
    <root:element()>
  }
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
  match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<
>

// 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>
  <endif>

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adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> {<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
}

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<hetero>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
</hetero>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>

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

/** Match . wildcard and auto dup the node/subtree */
 wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;

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// 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>);
@end
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>);
@end
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
@if(backtracking)]){<endif>
@endif>
}>
>>
/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)>;
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
    adaptor.addChild(root_._treeLevel, <label>.getTree());
  <else> <! rewrite mode !>
    if ( _first_._treeLevel==null ) _first_._treeLevel = <label>.tree;
  <endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>;
  <listLabel(elem=label+".getTree()",...)>;
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)>;
  <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    root_._treeLevel = (ASTLabelType)adaptor.becomeRoot(<label>.getTree(), root_._treeLevel);
  <else> <! rewrite mode !>
    if ( _first_._treeLevel==null ) _first_._treeLevel = <label>.tree;
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>;
  <listLabel(elem=label+".getTree()",...)>;
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrack(...)>;
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrackAndListLabel(...)>;
>>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to */
*  change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
    new <hetero>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
      retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
      <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/Java/ASTTreeParser.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() ::= <<
// 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;}>
}  

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;
@endif

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
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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>
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)>
}
</if>

namespace <actions.(actionScope).namespace>
{

<endif>

// delegates
<grammar.delegates:

// delegators
<grammar.delegators:
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>
        </if>
        <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>"; } } }
this);}; separator="\\n">
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\\n">
<last(grammar.delegators):{glgParent = <g:delegateName()>;}>
}
}

<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

<rules; separator="\\n\\n">

<insertLexerSynpreds(synpreds)>

#endregion 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

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
  * for matches. No error can be generated upon error; just rewind, consume
  * a token and then try again. backtracking needs to be set as well.
  * Make rule memoization happen only at levels above 1 as we start mTokens
  * at backtracking==1.
  */
filteringNextToken() ::= <<
public override IToken NextToken()
{
    while (true)
    {
        if (input.LA(1) == CharStreamConstants.EndOfFile)
{ 
  IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, 
  input.Index, input.Index);
  eof.Line = Line;
  eof.CharPositionInLine = CharPositionInLine;
  return eof;
}
state.token = null;
state.channel = TokenChannels.Default;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
  int m = input.Mark();
  state.backtracking=1;<! means we won't throw slow exception !>
  state.failed=false;
  mTokens();
  state.backtracking=0;
  <! mTokens backtracks with synpred at backtracking==2
       and we set the synpredgate to allow actions at level 1. !>
  if (state.failed)
  {
    input.Rewind(m);
    input.Consume();<! advance one char and try again !>
  }
  else
  {
    Emit();
    return state.token;
  }
}
catch (RecognitionException re)
{
  // shouldn't happen in backtracking mode, but...
  ReportError(re);
  Recover(re);
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
  if (state.backtracking > 1)
  base.Memoize(input, ruleIndex, ruleStartIndex);
}
public override bool AlreadyParsedRule(IIntStream input, int ruleIndex) {
    if (state.backtracking > 1)
        return base.AlreadyParsedRule(input, ruleIndex);

    return false;
}

actionGate() ::= "state.backtracking == 0"
filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="object", labelType, members, rewriteElementType,
    filterMode) ::= <<
[System.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"}
    // 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];
    >>
<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>, SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}
</cyclicDFAs:
cyclicDFA()><! dump tables for all DFA !>
#endregion DFA
<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><end
        if>,
        members={<actions.treeparser.members>},
        filterMode) ::= <<
        <genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
    >>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc..., just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves. */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
    partial void Enter_<ruleName>_fragment();
    partial void Leave_<ruleName>_fragment();

    // $ANTLR start <ruleName>
    public <!final !>void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
    {
        <ruleLabelDefs()>
    Enter_<ruleName>_fragment();
    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
    <block>
    }
    finally
    {
    TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
    Leave_<ruleName>_fragment();
    }
    // $ANTLR end <ruleName>
    >>

insertLexerSynpreds(synpreds) ::= <<
insertSynpreds(synpreds) ::= <<
@if(synpreds)
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;
    #@start()
    try { DebugBeginBacktrack(state.backtracking);
        int start = input.Mark();
        try
        {
            fragment();
        }
        catch (RecognitionException re )
        {
            System.Console.Error.WriteLine("impossible: "+re);
        }
    success = !state.failed;
    input.Rewind(start);
    } finally { DebugEndBacktrack(state.backtracking, success); }
    #@stop()
    state.backtracking--;
    state.failed=false;
    return success;
}
@endregion Synpreds
<<

ruleMemoization(name) ::= <<
@if(memoize)
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
@endif
<<

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) <returnFromRule()><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()> }<endif>
>>
/** How to generate code for a rule. This includes any return type * data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

partial void Enter_<ruleName>();
partial void Leave_<ruleName>();

// $ANTLR start "]<ruleName>>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> <returnType()>
<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
Enter_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "]<ruleName>>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<preamble()>
try
{
<ruleMemoization(name=ruleName)>
[block>
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
}
@if(exceptions)>
<exceptions:{e|catch(decl=e.decl,action=e.action)\n}>
<else>
@if(!emptyRule)>
@if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re)
{
ReportError(re);
Recover(input,re);
<setErrorReturnValue()>
\n
@end
@end
@end
@end
finally {
    // ...
<ruleDescriptor.useScopes: {<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>
>>

returnFromRule() ::= <<
return<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
  single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
;
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
 retval.Stop = (<labelType>)input.LT(-1);<\n>
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
partial void Enter_<ruleName>();
partial void Leave_<ruleName>();

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]  
<csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> void
m<_ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
  Enter_<ruleName>();
  EnterRule("<ruleName>", <ruleDescriptor.index>);
  TraceIn("<ruleName>", <ruleDescriptor.index>);
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try
  {
    <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <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>
    </block>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
    <endif>
finally {
  TraceOut("<ruleName>", <ruleDescriptor.index>);
  LeaveRule("<ruleName>", <ruleDescriptor.index>);
  Leave.<ruleName>();
  <ruleScopeCleanUp()>
  <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

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

// S U B R U L E S

/*** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int alt<decisionNumber>==<maxAlt>;
  <decls>
  <@predecision()>
  try { DebugEnterSubRule(<decisionNumber>); }
  try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]); }
  <decision>
  } finally { DebugExitDecision(<decisionNumber>); }
  <@postdecision()>
  <@prebranch()>
  switch (alt<decisionNumber>)
  {
    <alts:altSwitchCase()>
  }
  } finally { DebugExitSubRule(<decisionNumber>); }
  <@postbranch()>
} >>

/*** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
@@predecision()
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
@@postdecision()
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
// <fileName>:<description>
<decls>
@@prealt()
DebugEnterAlt(1);
<alts>
@@postalt()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
// <fileName>:<description>
<decls>
@@prealt()
DebugEnterAlt(1);
<alts>
@@postalt()
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber> = 0;
<decls>
@@preloop()
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber> = <maxAlt>;
@@predecision()
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
@@postdecision()
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
    default:
    if (cnt<decisionNumber> >= 1)
go to 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:
go to loop<decisionNumber>;
}
}
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() ::= <<
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) ::= ""

// ELEMENTS

element() ::= <<
  <@prematch()>

} finally { DebugExitSubRule(<decisionNumber>); }
DebugLocation(<it.line>, <it.pos>);

/** 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 ("".)
}
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;
<endif>
</if>

matchSetUnchecked(s,label,elementIndex,postmatchCode="") ::= <<<
<if(label)>
<if(!LEXER)>
<label>= input.LA(1);<\n>
</if>
<else>
<label>=(<labelType>)input.LT(1);<\n>
</if>
<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()></
  <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) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)> <label> ::= <endif> <if(scope)> <scope:delegateName()> <endif> <rule.name>(<args; separator=" ";}); PopFollow(); <checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 * 
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
<if(scope)> <scope:delegateName()> .m<rule.name>(<args; separator=" ";});
<checkRuleBacktrackFailure()>
lable = 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()> .m<rule.name>(<args; separator=" ";});
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
Match(EOF); <checkRuleBacktrackFailure()>
lableType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)> <scope:delegateName()> .m<rule.name>(<args; separator=" ";});
<checkRuleBacktrackFailure()>
<endif>
>>
CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenTypes.Down)
{
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 *  also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// 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>
NoViableAltException nvae = new NoViableAltException("\n", <decisionNumber>, <stateNumber>, input);
DebugRecognitionException(nvae);
throw nvae;

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>; /* if no edges, don't gen ELSE */
<else>
alt<decisionNumber>=<eotPredictsAlt>; /* if no edges, don't gen ELSE */
</else>
</if>
>></

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; /* if no edges, don't gen ELSE */
</if>
</if>
>></

/** 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.
 */
dfEdge(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 nvaeh = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvaeh;
}<\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>;
breaek;<\n>
dfEdgeSwitch(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 =
"<dfa.javaCompressedEOT; wrap="\n\n\n"">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\n\n\n"">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\n\n"">";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\n\n"">";
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="",
};
private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for ( int i=0; i < numStates; i++ )
    {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
: base(specialStateTransition)<\n
<endif>
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return ":dfa.description:"; } }

public override void Error(NoViableAltException nvaes)
{
    DebugRecognitionException(nvae);
}

private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<
{<
    int _s = s;
    switch (s)
    {
    <dfa.specialStateSTs:{state |
    case <i0>:<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    }
    NoViableAltException nvaes = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvaes);
    throw nvaes;
}

/** 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;

Open Source Used In imicampaign 6.2.0 2752
input.Rewind();
<endif>
s = -1;
<edges; separator="else">
<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>;}<
>>

/** 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>
   }<
   }
  <else>
  partial void <scope.name>_scopeInit( <scope.name>_scope scope );<
  <endif>
  <if(scope.actions.scopeafter)>
  protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
  {
  <scope.actions.scopeafter>
  }<
  }
  <else>
  partial void <scope.name>_scopeAfter( <scope.name>_scope scope );<
  <endif>
  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()>.<ruleDescriptor:returnStructName>()
  <else>
  "<it.name>._return"
  >>

Open Source Used In imicampaign 6.2.0 2754
/** Generate the C# 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". */

initWith(typeName) ::= <<
    default(<typeName>)
>>

/** Define a rule label including default value */

ruleLabelDef(label) ::= <<
    <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> = <initWith(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()
    <else>
    void
    <endif>
>>
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like { $function.size()>0 && $function::name.equals("foo") }?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>..<attr.name>:.initValue(attr.type)>)
<else>
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_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>
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) ::= "<<
<input.TokenStream.ToString(
   input.TreeAdaptor.GetTokenStartIndex(retval.Start),
   input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<<
<if(TREE_PARSER)>
   input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(retval.Start),
      input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
   input.ToString(retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope, attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope, attr) ::= "Text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= ":-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= ":channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.Template =<expr>;;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
    <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> )
    {
        <action>
    }
    <else>
        <action>
    <endif>
    >>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
    public static readonly BitSet <name> = new BitSet(new ulong[] {<words64>{<it>UL};separator","});<

    codeFileExtension() ::= ".cs"

    true() ::= "true"
    false() ::= "false"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp3/CSharp3.stg
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/** Template subgroup to add template rewrite output
* If debugging, then you'll also get ST dbg.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() ::= <<
```csharp
@super.members()

protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates", typeof(AngleBracketTemplateLexer));

public StringTemplateGroup TemplateLib
{

gt { return this.templateLib; }
set { this.templateLib = value; }
}

/// <summary> Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...).Add(...)"
/// </summary>
protected class STAttrMap : Hashtable
{

gt Add(string attrName, object value)
{
    base.Add(attrName, value);
    return this;
}

gt Add(string attrName, int value)
{
    base.Add(attrName, value);
    return this;
}
}

///<summary></summary>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRef(...)>
    <listLabel(elem=label+".Template",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
@if(backtracking)
@if ( <actions.(actionScope).synpredgate> )
{
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    }
    <else>
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    <endif>
>>
```
replaceTextInLine() ::= <<
  <if(TREE_PARSER)>
  ((TokenRewriteStream)input.TokenStream).Replace(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start),
    retval.ST);
  <else>
  ((TokenRewriteStream)input).Replace(
    ((IToken)retval.Start).TokenIndex,
    input.LT(-1).TokenIndex,
    retval.ST);
  </endif>
>>

rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
  if (<it.pred>) {
    retval.ST = <it.alt>;
  }</n>
<else>
  {
    retval.ST = <it.alt>;
  }</n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs. 
* Set the value of the rule's template *after* having set 
* the attributes because the rule's template might be used as 
* an attribute to build a bigger template; you get a self-embedded 
* template. */
rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
  new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>)
  <endif>)
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
  new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>)
>>
/** 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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 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp2/ST.stg
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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/DFA.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/LookaheadSet.java
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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFAConversionThread.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/grammarSyntaxMessage.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/grammar.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/OrderedHashSet.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Tool.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/grammarSpelunker.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFAConfiguration.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/DOTGenerator.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/grammarReport.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/AnalysisRecursionOverflowException.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/CompositeGrammar.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/Barrier.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/RuleLabelScope.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/grammarSanity.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFAContext.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/StateCluster.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/Rule.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/JavaTarget.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/grammarAnalysisAbortedMessage.java
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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/grammarSerializerFoo.java
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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/Transition.java
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/DFAShape.java

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*/
group Delphi implements ANTLRCore;

csharpTypeInitMap ::= [  
  "int": "0",
  "uint": "0",
  "long": "0",
  "ulong": "0",
  "float": "0.0",
  "double": "0.0",
  "bool": "False",
  "byte": "0",
  "sbyte": "0",
  "short": "0",
  "ushort": "0",
  "char": "\0",
  "string": ""
],
default: "nil" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * 'TREE_PARSER' (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 * tokens (HashMap<name: String, type: Integer>):
 * tokenNames:
 * rules:
 * cyclicDFAs:
 * bitsets:
 * buildTemplate (Boolean): should we generate a string template?
 * buildAST (Boolean): should we generate an AST?
 * rewriteMode (Boolean): are we rewriting nodes?
 * profile (Boolean):
 * backtracking (Boolean): backtracking mode?
 * synpreds (): syntactic predicates
 * memoize (Boolean): should we memoize?
 * numRules (Integer): number of rules
 * fileName (String): fully qualified name of original .g file
 * ANTLRVersion (String): ANTLR version in Major.Minor.Build format
 * generatedTimestamp (String): date/time when the file is generated
 * trace (Boolean): should we trace input/output?
 * scopes:
superClass (String): name of base class, or empty string
literals:

/**
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    unit <name>;

{$HINTS OFF}

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

<actions.(actionScope).header>

interface

<@imports>
uses
<@end>
<actions.(actionScope).usesInterface>
<if(TREE_PARSER)>
    Antlr.Runtime.Tree,"
<endif>
    Antlr.Runtime,
    Antlr.Runtime.Collections,
    Antlr.Runtime.Tools;

<docComment>
<recognizer>
>>

/** Generates source code for the lexer class
* grammar (Grammar object)
*/
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
    I<grammar.recognizerName>)
strict private
FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
FException: ERecognitionException;

procedure InitializeCyclicDFAs;
<
public:
cyclicDFAs:cyclicDFADeclaration()>
public
const
	<tokens:{<it.name> = <it.type>;}; separator="\n">;
	<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)<endif>}

strict private
<actions.(actionScope).memberDeclarations>
public
// delegates
<grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName>}}; separator="\n">;
public
// delegators
<grammar.delegators: {g|<g:delegateName()>: Pointer; {<g.recognizerName>}}; separator="\n">;
<last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}
protected
{ IBaseRecognizer }

function GetGrammarFileName: String; override;
<if(filterMode)>
function AlreadyParsedRule(const Input: IIntStream;
const RuleIndex: Integer): Boolean; override;
procedure Memoize(const Input: IIntStream; const RuleIndex,
RuleStartIndex: Integer); override;
protected
{ ILexer }

function NextToken: IToken; override;
<endif>

<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">
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>}}});
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;<\n> <! index from 1..n !>
    <endif>
  <endif>
  <actions.(actionScope).memberInitializations>
end;

<grammar.directDelegates:
  {g<delegateName()> := T<recognizerName>.Create(AInput, State<trunc(g.delegators):{p|, <p:delegateName()>}>, Self);}; separator="\n">
<grammar.delegators:
  {g<delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
<last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}>}
<actions.(actionScope).memberImplementations>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>,'
end;

<if(filterMode)>
<filteringNextToken()>
<endif>
procedure Tgrammar.recognizerName>.InitializeCyclicDFAs;
begin
  <cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> :=
  T DFA<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 Tgrammar.recognizerName>.NextToken: IToken;
var
  M: Integer;
begin
  while (True) do
  begin
    if (Input.LA(1) = Integer(cscEOF)) then 
      Exit(TToken.EOF_TOKEN);
    State.Token := nil;
    State.Channel := TToken.DEFAULT_CHANNEL;
    State.TokenStartCharIndex := Input.Index;
    State.TokenStartCharPositionInLine := Input.CharPositionInLine;
    State.TokenStartLine := Input.Line;
    State.Text := '';
    try
      M := Input.Mark();
      State.Backtracking := 1; <! means we won't throw slow exception !>
      State.Failed := False;
      mTokens();
      State.Backtracking := 0;
    <!
mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1.

if (State.Failed) then
begin
Input.Rewind(M);
Input.Consume; <! // advance one char and try again !>
end
else
begin
Emit;
Exit(State.Token);
end;
except
on RE: ERecognitionException do
begin
// shouldn't happen in backtracking mode, but...
ReportError(RE);
Recover(RE);
end;
end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
const RuleIndex: Integer): Boolean;
begin
if (State.Backtracking > 1) then
Result := inherited AlreadyParsedRule(Input, RuleIndex)
else
Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream;
const RuleIndex, RuleStartIndex: Integer);
begin
if (State.Backtracking > 1) then
inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

filteringActionGate() ::= "(State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, inputStreamType, superClass, filterMode,
ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>}> end;

I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
<rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>}> end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>
public
  const
  TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = ("<invalid>",
  "<EOR>",
  "<DOWN>",
  "<UP>",
  <tokenNames; separator="\n">);<\n>
<ENDIF>
public
const
  <tokens:{<it.name> = <it.type>;}; separator="\n">;
public
  // delegates
  <grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName>}}; separator="\n">;
public
  // delegators
  <grammar.delegators: {g|<g:delegateName()>: Pointer; {<g.recognizerName>}}; separator="\n">;
  <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}{<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)>}> end;

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>

// Delegated rules
<grammar.delegatedRules: [ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)> ]>

<synpreds: [p | <synpredDeclaration(p)> ]; separator="\n">
<cyclicDFAs: cyclicDFADeclaration()>

strict private
FException: ERecognitionException;
FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
procedure InitializeCyclicDFAs;
@if(bitsets)
public
class var
  <bitsets: bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
class procedure InitializeBitsets; static;
@end>
<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()>}, Self});
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);
@end>
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input, State<trunc(g.delegators):{p|, <p:delegateName()>}, Self}); separator="\n">
<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}>  
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)> }>  
<scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> } }  
<actions.(actionScope).memberInitializations>
end;  
<actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)> }; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler := DFA<dfa.decisionNumber>_SpecialStateTransition;<endif> }; separator="\n">
end;

<if(bitsets)>
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
@end>

@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)> }>
<grammar.openDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
initialization  
T<grammar.recognizerName>.InitializeBitsets;
@end>
delegatedRuleDeclaration(ruleDescriptor) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType()>;<
  </if>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType()>;<
  </if>
  <else>
  procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<
  </if>
  </if>
>>

degradedRuleImplementation(ruleDescriptor) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  function T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType()>;<
  </if>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  function T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType()>;<
  </if>
  <else>
  procedure T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<
  </if>
  </if>
  begin
  <if(ruleDescriptor.hasReturnValue)>Result :=<endif>
  T<ruleDescriptor.grammar.recognizerName>().Implementor.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>).<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<
  end;
>>

parserCtorBody() ::= <<
  InitializeCyclicDFAs;
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  State.RuleMemoCount := <length(grammar.allImportedRules)>+1;<
  end;
end;
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType=[<ASTLabelType>], ASTLabelType="object", superClass="TreeParser",
members=[<actions.treeparser.members>], filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start "<ruleName>"
procedure
T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
;
var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleLabelDefVars()>
begin
<ruleLabelDefs()>
<if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try
 <block>
finally
 TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;
<else>
 <block>
<endif>
end;
// $ANTLR end "<ruleName>"
>>
synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>

synpred(name) ::= <<

function T<grammar.recognizerName>.<name>: Boolean;
var
Start: Integer;
Success: Boolean;
begin
State.Backtracking := State.Backtracking + 1;
<@start()> 
Start := Input.Mark;
try
 <name>_fragment(); // can never throw exception 
except
 on RE: ERecognitionException do
 WriteLn('Impossible: ' + RE.ToString);
end;
Success := not State.Failed;
Input.Rewind(Start);
<@stop()> 
State.Backtracking := State.Backtracking - 1;
State.Failed := False;
Result := Success;
end;<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

lexerSynpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>

synpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
 Exit(<ruleReturnValue()>);
<\if(memoize)>
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)><n>if (State.Failed) then Exit(<ruleReturnValue()>)<n><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (State.Backtracking > 0) then
begin
State.Failed := True;
Exit(<ruleReturnValue()>)
end;<endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
returnScopeDeclaration(scope=ruleDescriptor.returnScope)
public
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType()><n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType()><n>
<else>
procedure <rule.ruleName>;<n>
<endif>
<endif>
<endif>
<endif>
>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType()><n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType()><n>
<else>
procedure <rule.ruleName>;<n>
<endif>
<endif>
<endif>
<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)>

// $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>
<endif>

var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType>();<
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType>();<
<else>
<endif>
<endif>
<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)><
            }
        <else>
          <if(!emptyRule)>
            <if(actions.(actionScope).rulecatch)>
              <actions.(actionScope).rulecatch>
            <else>
              except
                on RE: ERecognitionException do
                begin
                  ReportError(RE);
                  Recover(Input,RE);
                  <@setErrorReturnValue()>
                  end;<
            <endif>
            <endif>
        <endif>
        <endif>
      <endif>
    <endif>
  <endif>
  <endif>
  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>: IList<ANTLRInterface>;}; separator="\n"
_${ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n"}
>>

lexerRuleLabelDefs() ::= <<
_${ruleDescriptor.tokenLabels,ruleDescriptor.ruleLabels}
: {<it.label.text> := nil;}; separator="\n"
> ${ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n"}
_${ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels}
: {List_<it.label.text> := nil;}; separator="\n"
> >>

lexerRuleLabelDefDeclarations() ::= <<
_${ruleDescriptor.tokenLabels,ruleDescriptor.ruleLabels}
: {<it.label.text>: I<labelType>;}; separator="\n"
> ${ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n"}
_${ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels}
: {List_<it.label.text>: IList<ANTLRInterface>;}; separator="\n"
> >>

ruleReturnValue() ::= <<
${if(!ruleDescriptor.isSynPred)}
${if(ruleDescriptor.hasReturnValue)}
${if(ruleDescriptor.hasSingleReturnValue)}
${ruleDescriptor.singleValueReturnName}
${else}
RetVal
${endif}
${else}

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ruleCleanUp() ::= <<
  <if(!ruleDescriptor.hasMultipleReturnValues)>
  <if(!TREE_PARSER)>
   RetVal.Stop := Input.LT(-1);
  <endif>
  <endif>
>>

memoize() ::= <<
  <if(!memoize)>
  <if(!backtracking)>
    if (State.Backtracking > 0) then
      Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
    <endif>
  <endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  // $ANTLR start "<ruleName>"
  <ruleDescriptor.parameterScope>
  procedure T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
  var
    <ruleDescriptor.actions.vars>
  Locals: TLocalStorage;
  TokenType, Channel: Integer;
  Alt: array [0..<grammar.numberOfDecisions>] of Integer;
  <lexerRuleLabelDefDeclarations()>
  begin
    Locals.Initialize;
    try
      <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
      <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
      <ruleScopeSetUp()>
      <ruleDeclarations()>
      try
        <if(nakedBlock)>
          <ruleMemoization(name=ruleName)>
          <lexerRuleLabelDefs()>
          <ruleDescriptor.actions.init>
          <ruleDeclarations()>
          try
            <if(nakedBlock)>
              <ruleMemoization(name=ruleName)>
              <lexerRuleLabelDefs()>
              <ruleDescriptor.actions.init>
```<block><
<TokenType := <ruleName>>;
Channel := DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<body>
<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;
// $ANTLR end 
```

```** 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>;
```

```
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[decisionNumber] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
case Alt[decisionNumber] of
<alts:altSwitchCase()>
end;
<@postbranch()>
>>

/** A special case of a (...) subrule with a single alternative */
ruleBlockSingleAlt(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()>
<@prebranch()>
<decision>
<@postdecision()>
case Alt[decisionNumber] of
<alts:altSwitchCase()>
end;
<@postbranch()>
>>
while (True) do
begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision>()
<decision>
<@postdecision>()
case Alt[<decisionNumber>] of
<alts:altSwitchCase()>
else
begin
if (FCnt[<decisionNumber>] >= 1) then
Break;
<ruleBacktrackFailure()>
raise EEarlyExitException.Create(<decisionNumber>, Input);
<@earlyExitException()>
end;
end;
Inc(FCnt[<decisionNumber>]);
end;
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...) block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@preloop()>
while (True) do
begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
<alts:altSwitchCase()>
else
Break;
end;
end;
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
so we can just use the normal block template

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
<i>:>
@endalt()
</i>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
/*. <fileName>:<description> */
begin
.RELATED()
.elements:element()>
.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() ::= <<
.RELATED()
.<it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
.<if(label)> <label> := <endif>Match(Input, <token>,
.FOLLOW_<token>_in_<ruleName><elementIndex>)</if(label)> as I<labelType><endif>;<
><checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)> >>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList<IANTLRInterface>.Create;
list_<label>.Add(<elem>);\n>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);\n<endif>
Match(<char>); <checkRuleBacktrackFailure()> >>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> := Input.LA(1);\n<endif>
MatchRange(<a>, <b>); <checkRuleBacktrackFailure()> >>

 /** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(Lexer)>
<label> := Input.LA(1);\n<else>
<label> := Input.LT(1) as I<labelType>;\n<endif>
<endif>
if (<s>) then
begin
Input.Consume;
<postmatchCode>
<if(!lexer)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()> FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(FException);
raise FException;
<else>
raise FException;
</if>

%! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName>_<elementIndex>);

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>;<
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> := Input.LA(1) as I<labelType>;<
<endif>
MatchAny(input); <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=', '>);<
}else
@if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name
>(<args; separator=', '>);<
@endif
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(…)>
<listLabel(elem=label, …)>
>>

/** A lexer rule reference.
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
@if(label)
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
@if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=', '>);
<checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
}else
@if(scope)>(<scope:delegateName()>Implementor as T<scope.recognizerName>).<endif>m<rule.name>(<args;
separator=', '>); <checkRuleBacktrackFailure()>

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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)> Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()> <actionsAfterRoot:element()> <if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then begin
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()> Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()> end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()> Match(Input, TToken.UP, nil);<n><checkRuleBacktrackFailure()> <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression). */
validateSemanticPredicate(pred, description) ::= <<
if (not (<evalPredicate(...)>)) then begin
<ruleBacktrackFailure()>
raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');
// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
  <edges; separator="\nelse ">
  else
  begin
  <if(eotPredictsAlt)>
  Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
  <else>
  <ruleBacktrackFailure()>
  raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
  <endif>
  end;
end;
>>

/** Same as a normal DFA state except that we don’t examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that’s it.
 */
dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
  <edges; separator="\nelse ">
  >>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for (‘a’)* on the end of a rule
 * anything other than ‘a’ predicts exiting.
 */
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
  <edges; separator="\nelse ">
  >>
/** An accept state indicates a unique alternative has been predicted */

```plaintext
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.
*/

```plaintext
dfaEdge(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().
*/

```plaintext
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
<edges; separator="\n">
else
begin
@if(eotPredictsAlt>
    Alt[<decisionNumber>] := <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    <@noViableAltException()>
    raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
@endif
end;
end;<\n>
>>
```

```plaintext
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
<edges; separator="\n">
end;<\n>
>>
```

```plaintext
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
<edges; separator="\n">
@if(eotPredictsAlt>
else
```
Alt[<decisionNumber>] := <eotPredictsAlt>;<\n><endif>
end;<\n>

>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{<it>}; separator="","n">:
begin
  <targetState>
end;
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
*  in the rule to predict an alt just like the fixed DFA case.
*  The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
>>

/* Dump DFA tables.
*/
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
  TDFA<dfa.decisionNumber> = class(TDFA)
protected
  { IDFA }
  function Description: String; override;
public
  constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
  FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
  function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
  const AInput: IIntStream): Integer;<endif>
>>
cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }

constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
  IBaseRecognizer);
const
DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap=""'>;
DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap=""'>;
DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap=""'>;
DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap=""'>;
DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap=""'>;
DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap=""'>;
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (  
    <dfa.javaCompressedTransition: s|'<s; wrap=""'>}; separator="," 
    );
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.UnpackedEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
  Result := '<dfa.description>';  
end;<

function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer; const AInput: IIntStream): Integer;
var
  Locals: TLocalStorage;
  Input: IIntStream;
<if(LEXER)>
  Input := AInput;
<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(dfa.specialStateSTs)
    

<endif>
<if(PARSER)>
Input := AInput as ITokenStream;
<endif>
<if(TREE_PARSER)>
Input := AInput as ITreeNodeStream;
<endif>
_S := S;
case S of
  <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
  <state> <\n>   end;}; separator="\n">
end;
<if(backtracking)>
if (State.Backtracking > 0) then
begin
  State.Failed := True;
  Exit(-1);
end;<\n>
<endif>
NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);
DFA.Error(NVAE);
raise NVAE;
finally
  Locals.Finalize;
end;
end;<\n>
<endif>  >>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 *  state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
    Input.Rewind;<\n>
<endif>
  S := -1;
  <edges; separator="nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
    Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n>
<endif>
if (S >= 0) then
  Exit(S);
>>
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.

```c
/**
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
  S := <targetStateNumber>
>>
/**
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
  S := <targetStateNumber>;<
>>
```

// DFA EXPRESSIONS

```c
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 (""

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
  <scope.name>Stack := TStackList\<I<scope.name>Scope!>.Create;<
```
globalAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
  <scope.attributes: { <it.name>: <it.type>; }; separator="\n"> end;
strict protected
<scope.name>Stack: IStackList\{I<scope.name>Scope\};
<endif>
>>

ruleAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
  <scope.attributes: { <it.name>: <it.type>; }; separator="\n"> end;
strict protected
<scope.name>Stack: IStackList\{I<scope.name>Scope\};
<endif>
>>

ruleAttributeScope(scope) ::= <<
<! protected Stack <scope.name>Stack = new Stack();<
> !>
>>

ruleAttributeScopeInit(scope) ::= <<
<if(scope)><scope.name>Stack := TStackList\{I<scope.name>Scope\}.Create;<\n>
<endif>
>>

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

returnType() ::= <<
<if(ruleDescriptor.hasMoreReturnValues)>
<ruleDescriptor:returnStructName()>
</if>
>>
<! I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope !>
<else>
  <if(ruleDescriptor.hasSingleReturnValue)>
    <ruleDescriptor.singleValueReturnType>
    <else>
      <if(ruleDescriptor.hasSingleReturnValue)>
        <ruleDescriptor.singleValueReturnType>
        <else>
          void
        </endif>
      </if>
    </else>
  </if>
</endif>

/** Generate the C# type associated with a single or multiple return
 * values. */
ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    I<referencedRule.name>_return
  <else>
    <if(referencedRule.hasSingleReturnValue)>
      <referencedRule.singleValueReturnType>
    <else>
      void
    </endif>
  </if>
>>

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

returnScopeDeclaration(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
public
type
T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
@if(scope.attributes:{public <it.decl>;}; separator="\n")
@@ruleReturnMembers()
@endif
end;
@endif
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(negIndex)
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name>
@else
@if(index)
(<scope>Stack[<index>] as T<scope>Scope).<attr.name>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
@else
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>
@endif
@endif
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
@if(negIndex)
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name> := <expr>;
@else
@if(index)
(<scope>Stack[<index>] as T<scope>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) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    (IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,\$initValue(attr.type)))
  <else>
    <scope>
  <endif>
  <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>;\n  <else>
    <attr.name> := <expr>;\n  <endif>
>>

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID \{\text{[ids]}\} or e+=expr \{e\} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(\$Def(scope).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(\$Def(scope).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((StrToIntDef(Def(<scope>).Text,0)))"

ruleLabelPropertyRef_start(scope,attr) ::= "((IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((Def(<scope>).Tree as I<ASTLabelType>)"
ruleLabelPropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER>)
Input.TokenStream.ToString(
   Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
   Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), "")
<else>
   (Def(<scope>).Start as IToken,(Def(<scope>).Stop as IToken), "")
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/* Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>
lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((StrToIntDef(Def(<scope>).Text,0)))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "((RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "((RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER>)
Input.TokenStream.ToString(
   Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
   Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
<else>
   Input.ToString(RetVal.Start as IToken,Input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "RetVal.ST"
lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "((CharIndex-1))"
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  if (<actions.(actionScope).synpredgate>) then
  begin
  <action>
  end;
  <else>
  if (State.Backtracking = 0) then
  begin
  <action>
  end;
  <endif>
  <else>
  <action>
  <endif>
  >>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
  <name> := TBitSet.Create([<words64: {<it>};separator=",">]);<\n>
>>
bitsetDecl(name) ::= <<
  <name>: IBitSet;<\n>
>>
codeFileExtension() ::= ".pas"

true() ::= "True"
false() ::= "False"

Found in path(s):
*/opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Delphi/Delphi.stg
No license file was found, but licenses were detected in source scan.

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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<grammar.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(...)>
  <! Track implies no auto AST construction!>
  <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) ::= <<
  <listLabel(elem=label,....)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <ruleRefTrack(...)>
  <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) ::= <<
**Rewrite**

`rewriteCode(alts, description, referencedElementsDeep, referencedTokenLabels, referencedRuleLabels, referencedRuleListLabels, referencedWildcardLabels, referencedWildcardListLabels, rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=`  

```java
if ( (actions.(actionScope).synpredgate) ) {  
    prevRuleRootRef().tree = root_0;  
    rewriteCodeLabels();  
    root_0 = this.adaptor.nil();  
    ! if tree parser and rewrite=true !>
    ! if (actions.(actionScope).synpredgate) ) |
    if (backtracking) if (actions.(actionScope).synpredgate) ) } endif}

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);
prevRuleRootRef().tree = root_0;
```

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
if ( (actions.(actionScope).synpredgate) ) |
if (backtracking) if (actions.(actionScope).synpredgate) ) } endif}
<prevRuleRootRef().tree = root_0;
<rewriteCodeLabels()>
root_0 = this.adaptor.nil();
<alt: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(TREE_PARSER)>
```

// R e w r i t e
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
:={var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it">,.<it>);};
   separator="\n"
>
<referencedTokenListLabels
:={var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>", list_<it>);};
   separator="\n"
>
<referencedWildcardLabels
:={var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);};
   separator="\n"
>
<referencedWildcardListLabels
:={var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",list_<it>);};
   separator="\n"
>
<referencedRuleLabels
   separator="\n"
>
<referencedRuleListLabels
:={var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",list_<it>);};
   separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>::<description>
if (<referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="\"\""> ) {
  <alt>
<referencedElementsDeep:{el | stream_<el>.reset();\n}>>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>::<description>
while (<referencedElements:{el | stream_<el>.hasNext()}; separator="\"\""> ) {
  <alt>
<referencedElements:{el | stream_<el>.reset();\n}>>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if (!<referencedElements:{el | stream_<el>.hasNext()}; separator="\"\"">) {
  throw new 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)><a.alt>
</a.alt>
</if(a.pred)>

<<
// <fileName>::<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)><a.alt>
</a.alt>
</if(a.pred)>

<<
/** 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>);
}\

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

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

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

/** 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 ^(ID ...) or ^(ID[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, ...)>, root_<treeLevel>);
>>

rewriteImaginaryTokenRefRoot(args, token, hetero, elementIndex) ::= <<
root_<treeLevel> = this.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) ::= <<
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>);<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>
rewriteWildcardLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
this.adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
this.adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sourcesjar/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>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }

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public virtual void DecRuleLevel() { ruleLevel--; }

<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
} \n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
base.Memoize(input, ruleIndex, ruleStartIndex);
} \n>
protected virtual bool EvalPredicate( bool result, string predicate )
{
dbg.SemanticPredicate( result, predicate );
return result;
}\n>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, int port, RecognizerSharedState state )
: base( input, state )
{
<parserCtorBody()>
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
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()>
}
<\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 )
{
<parsersCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n"}
<@finally()>
}
<\n
ctorForPredefinedListener() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg )
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
@if(profile)
Profiler p = (Profiler)dbg;
p.setParser(this);
@endif
<parsersCtorBody()>
<grammar.directDelegates:[g]<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
createListenerAndHandshake() ::= <<
@if(TREE_PARSER)
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );
@else
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );
@endif
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

@genericParser.superClassName() ::= "Debug<g@super.superClassName()>

/*
 * Much of the following rules were merged into CSharp3.stg.
 */

@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commerce();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{{
//dbg.EnterRule( GrammarFileName, "<ruleName>" );
//if ( RuleLevel == 0 )
//{{
//dbg.Commerce();
//}}
//IncRuleLevel();
//dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );
//}}

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
//}
//finally
//{
//dbg.ExitRule( GrammarFileName, "<ruleName>");
//DecRuleLevel();
//if ( RuleLevel == 0 )
//{
//dbg.Terminate();
//}
//}<
//>>

//@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> );\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( nvae );"

//@dfaDecision(decisionNumber,description) ::= <<
//@cyclicDFA.errorMethod() ::= <<
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp3/Dbg.stg
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*/

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*/
/** Templates for building ASTs during normal parsing.  
*  
*  Deal with many combinations.  Dimensions are:  
*  Auto build or rewrite  
*  no label, label, list label  (label/no-label handled together)  
*  child, root  
*  token, set, rule, wildcard  
*  
*  The situation is not too bad as rewrite (->) usage makes ^ and !  
*  invalid. There is no huge explosion of combinations.  */

group ASTParser;

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+(CommonTree)retval.tree.toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)
@if(backtracking)>if ( state.backtracking==0 ) {<endif>
<label>_tree = <createNodeFromToken(...)>
adaptor.AddChild(root_0, <label>_tree);
@if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)""}

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
@if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,....)>
>>
/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)> 
<listLabel(elem=label,...)> 
>>

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

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);})> 
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)> 
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)> 
<label>=<labelType>)input.LT(1);<\n 
<endif> 
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0; })> 
>>

// RULE REF AST
/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...))>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>adaptor.AddChild(root_0, <label>.Tree);
  >>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...))>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 =
  (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
  >>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...))>
  <listLabel(elem=label+.Tree",...")
  >>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...))>
  <listLabel(elem=label+.Tree",...")
  >>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
  <super.wildcard(...))>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
    adaptor.AddChild(root_0, <label>_tree);
  <if(backtracking)>}<endif>
  >>

wildcardBang(label,elementIndex) ::= "<super.wildcard(>)"

wildcardRuleRoot(label,elementIndex) ::= <<
createNodeFromToken(label,hetero) ::= <<
  <if(hetero)>
  new <hetero>(<label>) <! new MethodNode(IDLabel) !>
  <else>
  (<ASTLabelType>)adaptor.Create(<label>)
  </endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
  retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
  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/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/templates/messages/formats/gnu.stg
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* */
// Templates for building ASTs during tree parsing.
* 
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
* 
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;
>>

/** 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)>
reval.Tree = (<ASTLabelType>)._first_0;
   reval.Tree = (<ASTLabelType>).adaptor.GetParent(reval.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>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
   if ( input.LA(1)==TokenTypes.Down ) { 
      Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
      <children:element()>
      Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
   } 
   <else>
   Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
   <children:element()>
   Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
   <endif>
   <if(!rewriteMode)>
   adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
   <endif>
   _last = _save_last_<treeLevel>;
   }
 >>

   // 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(!rewriteRef(...))>
   <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
   <if(hetero)> 
   <label>_tree = new <hetero>(<label>);
   <endif><
   adaptor.AddChild(root_<treeLevel>, <label>_tree);
   <if(backtracking)>}<endif>
   else
   <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
   <endif> <
   <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
   if ( _first_<treeLevel)==null ) _first_<treeLevel> = <label>;
   <endif>
 >>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
   _last = (<ASTLabelType>)input.LT(1);
   <super.tokenRef(...)> 
   <if(!rewriteRef(...))>
   <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) ::= <<
   <tokenRefRuleRoot(...)> 
   <listLabel(elem=label,...)> 
 >>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
last = (ASTLabelType) input.LT(1);

if(!rewriteMode)

if(backtracking) if ( <actions.(actionScope).synpredgate> ) { <endif>

label._tree = (ASTLabelType) adaptor.DupTree(label);
adaptor.AddChild(root_treeLevel, label._tree);
@if(backtracking) } <endif>

else /* rewrite mode */

if(backtracking) if ( <actions.(actionScope).synpredgate> )<endif>

if (_first_treeLevel==null) _first_treeLevel = label;
<endif>

>

// SET AST

matchSet(s, label, hetero, elementIndex, postmatchCode) ::= <<

_last = (ASTLabelType) input.LT(1);

super.matchSet(..., postmatchCode={

if(!rewriteMode)

if(backtracking) if ( <actions.(actionScope).synpredgate> ) { <endif>

if(hetero)

label._tree = new hetero(label);

else

label._tree = (ASTLabelType) adaptor.DupNode(label);
<endif>

adaptor.AddChild(root_treeLevel, label._tree);
@if(backtracking) } <endif>

<endif>

}
>

>

matchRuleBlockSet(s, label, hetero, elementIndex, postmatchCode, treeLevel="0") ::= <<

matchSet(...)

noRewrite() /* set return tree */

>

matchSetBang(s, label, elementIndex, postmatchCode) ::= <<

_last = (ASTLabelType) input.LT(1);

super.matchSet(...)

>

matchSetRuleRoot(s, label, hetero, elementIndex, debug) ::= <<

super.matchSet(..., postmatchCode={

if(!rewriteMode)

if(backtracking) if ( <actions.(actionScope).synpredgate> ) { <endif>

if(hetero)

label._tree = new hetero(label);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>|<endif>
<endif>
}
)
>
>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    <if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel==null ) _first_<treeLevel> = <label>.Tree;
<endif>
<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>
<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) ::= <<
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(…)> >>

/** ^(rule ...) rewrite */
ruleRefRootTrack(rule, label, elementIndex, args, scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(…)> >>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(…)> >>

/** Streams for token refs are tree nodes now; override to */
/* change NextToken to NextNode. */
/createRewriteNodeFromElement(token, hetero, scope) ::= <<
<if(hetero)> new <hetero>(stream_<token>.NextNode()) <else> stream_<token>.NextNode() <endif> >>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)> if( <actions.(actionScope).synpredgate> ) { <un> <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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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>
<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)>>
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    ((Profiler)self._dbg).examineRuleMemoization(input, ruleIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return super.alreadyParsedRule(input, ruleIndex);
} <\n>

FIXME(3)
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    ((Profiler)self._dbg).memoize(input, ruleIndex, ruleStartIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    super.memoize(input, ruleIndex, ruleStartIndex);
} <\n>
<endif>

def evalPredicate(self, result, predicate):
    self._dbg.semanticPredicate(result, predicate)
    return result
<\n>
ceptorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<!>
public <name>(<inputStreamType> input) {
    this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
    super(input, state);
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, self._dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
    #@finally()
} <\n>
!>
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState state) {
    super(input, self.dbg, state);
    Profiler p = (Profiler)self.dbg;
p.setParser(this);

<parserCtorBody()>

<grammar.directDelegates:

   {g|<g:delegateName()> = new <g.recognizerName>(input, self.dbg, this.state, this<grammar.delegators:{g, <g:delegateName()}>);}; separator="\n"
   </@finally()>
}

/** 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"
    </@finally()>
}!
>>

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, this._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>)

<@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)\n"

@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(...)>

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

/*
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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, 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.recognizerName>
         <g:delegateName()>}>));
   }
   public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,
      <g.recognizerName> <g:delegateName()>}>){
      super(input, state);
      <if(memoize)>
      <if(grammar.grammarIsRoot)>
         state.ruleMemo = new HashMap[numRules+1];\n      \n      \n      <endif>
      <endif>
      <grammar.directDelegates:
         {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
            <p:delegateName()>}>), this);}; separator="\n">
public String getGrammarFileName() { return "<fileName>"; }

<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"高于2段>

<synpreds:{p | <lexerSynpred(p)>>}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n"高于2段>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n"高于2段>

<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=", ">
    };
</if>
@end>
// delegates
<grammar.delegates:
    { gpublic <g.recognizerName> <g:delegateName>(); }; separator="\n"
// delegators
<grammar.delegators:
    { gpublic <g.recognizerName> <g:delegateName>(); }; separator="\n"
<last(grammar.delegators):{ gpublic <g.recognizerName> gParent; }>

<scopes: { <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> } }
@@members
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
{ this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName()>}>));
}
public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
{ super(input, state);
<parserCtorBody()>
<grammar.directDelegates:
    { g<g:delegateName>() = new <g.recognizerName>(input, state<grammar.delegators:{p|, <p:delegateName()>}>), this); }; separator="\n"
<grammar.indirectDelegates:{ g | <g:delegateName()> = <g.delegator:delegateName()>.; }
<last(grammar.delegators):{ gParent = <g:delegateName>(); }>

public String[] getTokenNames() { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public String getGrammarFileName() { return "<fileName>"; }

@@rules
<! 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 <ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:attribute
es:{a|a.name}; separator="", "); }
</if> <ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:attribute
es:{a|a.name}; separator="", "); }
<synpreds:{p | <synpred(p)>}>
<cyclicDFAs: DFA dfa decisionNumber = new 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:
[\gthis.<\g.delegateName()> = \g.delegateName();]; separator="\n">

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
       ASTLabelType="Object", superClass="Parser", labelType="Token",
       members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
           numRules, bitsets, labelType=[<ASTLabelType>], ASTLabelType="Object",
           superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
           members={<actions.treeparser.members>},
           filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
<ruleLabelDefs()>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
} // $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() { 
    state.backtracking++;
    <@start()>
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
    <@stop()>
    state.backtracking--;
    state.failed=false;
    return success;
}<<

>>

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 (state.backtracking) { 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) ::= <<
  <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) }<in>
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
  <else>
  catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
    <setErrorReturnValue()>
  }<in>
  <endif>
  <endif>
  <endif>
  finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
  }
>>
catch(decl,action) ::= <<
catch (e.decl) {
  e.action
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
@returnType() retval = new <returnType()>();
retval.start = input.LT(1);
@else
@returnType() retval;
@if(memoize)
int <ruleDescriptor.name>_StartIndex = input.index();
@end
>>

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"
>>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try {
  <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><
  <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()>;
  </if>
  }
  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><
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// Open Source Used In imicampaign 6.2.0  2850
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

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

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<decls>
<@preloop()>
loop<decisionNumber>: do {
    int alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
        default: if (cnt<decisionNumber> >= 1) break loop<decisionNumber>;
        <ruleBacktrackFailure()>
        EarlyExitException eee = new EarlyExitException(<decisionNumber>, input);
        <@earlyExitException()>
        throw eee;
    }
    cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>: do {
    int alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()> 
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
        default: break loop<decisionNumber>;
    }
} while (true);
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock
/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
   <+prealt()>
   <it>
   break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
   <+prematch()>
   <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
   <+if(label)> <label>=(<labelType>)<endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>
   ); <+checkRuleBacktrackFailure()>
>>
/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex.hetero) ::= <<
<tokenRef(...)> <<
<listLabel(elem=label,...)> >>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);

>>

/** 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>
if ( <s> ) {
input.consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
}
else {
<ruleBacktrackFailure>()
MismatchedSetException mse = new MismatchedSetException(null,input);
@mismatchedSetException()
<if(LEXER)>
  recover(mse);
  throw mse;
<else>
  throw mse;
  <! use following code to make it recover inline; remove throw mse;
  recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
  !>
<endif>
}</n>
>
matchRuleBlockSet := matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...>)
  <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  int <label>Start = getCharIndex();
  match(<string>); <checkRuleBacktrackFailure()>
  int <label>StartLine<elementIndex> = getLine();
  int <label>StartCharPos<elementIndex> = getCharPositionInLine();
  <label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
  <label>.setLine(<label>StartLine<elementIndex>);
  <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
  <else>
  match(<string>); <checkRuleBacktrackFailure()></n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<
  <endif>
  matchAny(input); <checkRuleBacktrackFailure()></n>
<br>
wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...>)
  <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp--;
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);

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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)>
    int <label>Start<elementIndex> = getCharIndex();
    int <label>StartLine<elementIndex> = getLine();
    int <label>StartCharPos<elementIndex> = getCharPositionInLine();
    match(EOF); <checkRuleBacktrackFailure()>
    <labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
        getCharIndex()-1);
    <label>.setLine(<label>StartLine<elementIndex>);
    <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
    <else>
    match(EOF); <checkRuleBacktrackFailure()>
    <endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
        match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    } 
    <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
validateSemanticPredicate(pred, description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
  }
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
  <edges; separator="else ">
  else {
    <if(eotPredictsAlt)>
      alt<decisionNumber>=<eotPredictsAlt>;
    </if>
    <else>
      <ruleBacktrackFailure()>
      NoViableAltException nvae =
      new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
      <@noViableAltException()>
      throw nvae;
    </else>
  } else {
    <if(eotPredictsAlt)>
      alt<decisionNumber>=<eotPredictsAlt>;
    </if>
    <else>
      <ruleBacktrackFailure()>
      NoViableAltException nvae =
      new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
      <@noViableAltException()>
      throw nvae;
    </else>
  }
>>

/** 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="else ">
>>

/** 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(edges)>
  alt<decisionNumber>=<eotPredictsAlt>;
  </if>
>>
<else>
else {
    alt<decisionNumber>=<eotPredictsAlt>;
}</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 ( 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;
        </else>
    }
</switch>
);
>>

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;<\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); 
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS = "<dfa.javaCompressedEOT; wrap="\n"">;
static final String DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOF; wrap="\n"">;
static final String DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap="\n"">;
static final String DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap="\n"">;
static final String DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap="\n"">;
static final String DFA<dfa.decisionNumber>_specialS =
   "<dfa.javaCompressedSpecial; wrap=""\n \"">";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
   <dfa.javaCompressedTransition:[s]\"<s; wrap=""\n\"">"; separator="\n" >
};

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[] DFA<dfa.decisionNumber>_transition;

static {
   int numStates = DFA<dfa.decisionNumber>_transitionS.length;
   DFA<dfa.decisionNumber>_transition = new short[numStates][];
   for (int i=0; i<numStates; i++) {
      DFA<dfa.decisionNumber>_transition[i] =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
   }
}

class DFA<dfa.decisionNumber> extends DFA {

   public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
      this.recognizer = recognizer;
      this.decisionNumber = <dfa.decisionNumber>;
      this.eot = DFA<dfa.decisionNumber>_eot;
      this.eof = DFA<dfa.decisionNumber>_eof;
      this.min = DFA<dfa.decisionNumber>_min;
      this.max = DFA<dfa.decisionNumber>_max;
      this.accept = DFA<dfa.decisionNumber>_accept;
      this.special = DFA<dfa.decisionNumber>_special;
      this.transition = DFA<dfa.decisionNumber>_transition;
   }

   public String getDescription() {
      return "<dfa.description>";
   }
}

@if(dfa.specialStateSTs)>
public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {

```java
<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;
}<un>
<endif>
}<un>

/** 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;
<endif>

/** 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)) && (predicates)) {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>)"
evalSyn Predicate(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();
>>
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)>
<ruleDescriptor.singleValueReturnType>
@else>
void
@endif
@endif
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
@if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
@else>
@if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
@else>
void
@endif
@endif
>>

delegateName() ::= <<
@if(it.label)<it.label><else>g<it.name><endif>
>>

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

/** Define a rule label including default value */
ruleLabelDeflabel::=<<
<ruleLabelTypereferencedRule=labelreferencedRule><labellabeltext>=
<initValuetypeName=ruleLabelTypereferencedRule=labelreferencedRule>>;

/** 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::=<<
@ifruleDescriptorhasMultipleReturnValues>
publicstaticclass<ruleDescriptorreturnStructName>extends
@if(TREE_PARSER)TreeelseParserendifRuleReturnScope{
<scopeattributespublicitdecl>; separator="\n"
@ruleReturnMembers()
};
@endif
>>

parameterScope::=<<
<scopeattributespublicitdecl>; separator=" ">
>>

parameterAttributeRefattr::="attrname"
parameterSetAttributeRefattrexpr::="attrname=expr;"

scopeAttributeRefscopeattrindexnegIndex::=<<
@ifnegIndex>
[(scope_scope_stack.elementAt(scope_stack.size()-negIndex-1)).attrname
@ifindex>
[@scope_scope_stack.elementAt(index)].attrname
@ifnegIndex>
[@scope_stack.peek().attrname
@endif
@endif
>>

scopeSetAttributeRefscopeattrexprindexnegIndex::=<<
@ifnegIndex>
[(scope_scope_stack.elementAt(scope_stack.size()-negIndex-1)).attrname=expr;
@ifindex>
[(scope_scope_stack.elementAt(index)).attrname=expr;
@ifnegIndex>
[(scope_stack.peek().attrname=expr;
@endif
@endif
@endif

(<<scope>>._scope)._stack.elementAt(<index>).<attr.name> =<expr>;
<else>
(<<scope>>._scope)._stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like { $function.size() > 0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>
returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

/* Open Source Used in imicampaign 6.2.0  2866 */
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope>!=null?<scope>.getType():0))"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope>!=null?<scope>.getLine():0))"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope>!=null?<scope>.getCharPositionInLine():0))"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope>!=null?<scope>.getChannel():0))"
tokenLabelPropertyRef_index(scope,attr) ::= "((<scope>!=null?<scope>.getTokenIndex():0))"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((<scope>!=null?Integer.valueOf(<scope>.getText()):0))"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope>!=null?((<labelType>)<scope>.start):null))"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope>!=null?((<labelType>)<scope>.stop):null))"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope>!=null?((<ASTLabelType>)<scope>.tree):null))"
ruleLabelPropertyRef_text(scope,attr) ::= "<<
  <if(TREE_PARSER>)
    (<scope>!=null?(input.getTokenStream().toString(
      input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
      input.getTreeAdaptor().getTokenStopIndex(<scope>.start)):null))
  <else>
    (<scope>!=null?input.toString(<scope>.start,<scope>.stop):null)
  <endif>
>>"

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope>!=null?<scope>.st:0))"

/** 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)):null))
  <else>
    input.toString(retval.start,retval.stop):null
  <endif>
>>"
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) ::= 
<< 
/** file */ 
* 
* This <type> file was generated by ANTLR version <ANTLRVersion> 
* 
* - From the grammar source file : <fileName> 
* - On : <generatedTimestamp> 
<if(LEXER)> 
* - for the lexer : <name> 
<endif> 
<if(PARSER)> 
* - for the parser : <name> 
<endif> 
<if(TREE_PARSER)> 
* - for the tree parser : <name> 
<endif> 
* 
* Edit at your own peril. 
*/
>>

standardHeaders() ::= 
<< 
#include "antlr3/generatedType().h"

<if(profile)> 
#warning "No profiling support..."
<endif> 
<if(TREE_PARSER)> 
#warning "No tree parsing yet..."
<endif> 
>>

/** The overall file structure of a recognizer; stores methods for rules 
* and cyclic DFAs plus support code. */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, 
docComment, recognizer, 
name, tokens, tokenNames, rules, cyclicDFAs, 
bitsets, buildTemplate, profile, 
backtracking, synpreds, memoize, numRules, 
fileName, ANTLRVersion, generatedTimestamp, trace, 
scopes, superClass) ::= 
<< 
<leadIn("C++ source")>

Open Source Used In imicampaign 6.2.0 2870
```cpp
#include "<name><headerFileExtension()>">

// Header action start

// Header action end

<headerAction>

<standardHeaders()>

<docComment>
<brrecognizer>
>>
parserHeaderFile() ::= <<
>>
treeParserHeaderFile() ::= <<
>>
lexerHeaderFile() ::= <<
template<typename StreamType, typename TokenType, typename TokenBuilder>
class <name> : public antlr3::Lexer<StreamType,TokenType,TokenBuilder> {
    // carry over general types
typedef typename StreamType::position_type position_type;
typedef typename StreamType::char_type char_type;

typedef antlr3::tokenid_type tokenid_type;
typedef antlr3::channel_type channel_type;
typedef antlr3::decision_type decision_type;
    // exception shorthands
typedef antlr3::MismatchException<position_type,char_type> MismatchException;
typedef antlr3::MismatchedRangeException<position_type,char_type> MismatchedRangeException;
typedef antlr3::MismatchedSetException<position_type,char_type> MismatchedSetException;
typedef antlr3::EarlyExitException<position_type> EarlyExitException;
typedef antlr3::NoViableAltException<position_type> NoViableAltException;
    <if(backtracking)>
        // @TODO backtracking ruleMemo = new HashMap[<numRules>+1];<\n> <! index from 1..n !>
    </if>

public:
<tokens:{static const tokenid_type <tokenPrefix()><it.name> = <it.type>;}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>}
<bractions.lexer.members>

<name>(StreamType* input)
: antlr3::Lexer<StreamType,TokenType,TokenBuilder>(input)
{

````
headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass
) ::= 
<<
#ifndef "<name>" 
#define "<name>" 
<leadIn("C++ header")> 
<actions.(actionScope).headerfile>
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token", filterMode) ::= <<
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);
}
}

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)> <globalAttributeScope(scope=it)> <endif}> }
	<@members>
<name>(StreamType* input) : <superClass><StreamType,TokenType>(input)
{
@if(backtracking>
ruleMemo = new HashMap[numRules]+1];<\n> ! index from 1..n !>
@end>

//@TODO public String[] getTokenNames() { return tokenNames; }
//@TODO public String getGrammarFileName() { return "<fileName>"; }

<rules; separator="\n\n">

<synpreds:p | <synpred(p)> ]>

<cyclicDFAs:dfa protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this); ]; separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
];
>>

parser(
grammar, name, scopes, tokens, tokenNames,
rules, numRules, bitsets, ASTLabelType,
superClass=Parser, labelType="Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", ...)> >

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction,
rules, numRules,
bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass="TreeParser", members={<actions.treeparser.members>}, filterMode
) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)> >

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
*/
nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
// $ANTLR start <ruleName>
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
@if(trace)>System.out.println("enter <ruleName> "+input.LT(1)+" failed=",failed+" backtracking="+backtracking);<endif>
@if(trace)
try {
@start()}
@stop()
this->backtracking--;
return success;
}
else
@start()}
@stop()}
finally {
System.out.println("exit <ruleName> "+input.LT(1)+" failed=",failed+" backtracking="+backtracking);
}
// $ANTLR end <ruleName>
>>
synpred(name) ::= <<
public boolean <name>() {
    this->backtracking++; 
    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);
    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 > 0)
  {
    failed = true;
    return <ruleReturnValue>;
  }
  endif
>>

/** How to generate code for a rule. This includes any return type *
* data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(scope=ruleDescriptor.returnScope)>
  // $ANTLR start <ruleName>
  // <fileName>::<description>
  public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  throw/antlr3::BaseRecognitionException)
  {
    if (trace)
    antlr3::Tracer trace(this, "<ruleName>");
    System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
    <endif>
    <ruleDeclarations>
    <ruleLabelDefs>
    <ruleDescriptor.actions.init>
    <@preamble>
  try {
  

<ruleMemoization(name=ruleName)>
<block>
}
<if(exceptions)>
<exceptions:{e|catch(decl=e.decl,action=e.action)<\n}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re) {
reportError(re);
recover(input,re);
}<\n>
<endif>
<endif>
<endif>
finally {
<if(trace)>System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+
backtracking="+backtracking);<endif>
<ruleCleanUp()>
<(ruleDescriptor.actions.finally):execAction()>
}<@postamble()>
return <ruleReturnValue()>
}
// $ANTLR end <ruleName>
>
catch(decl,action) ::= <<
catch (<e.decl>) {
<e.action>
}<\n>
>>
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();
>>
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
    void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
ruleLabelDefs() ::= <<
    [ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
    :{<labelType> <it.label.text>=null;}; separator="\n"
>
    [ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
    :{List list_<it.label.text>=null;}; separator="\n"
>
    [ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
    :ruleLabelDef(label=it); separator="\n"
>
    [ruleDescriptor.allRuleRefsInAltsWithRewrites,ruleDescriptor.allTokenRefsInAltsWithRewrites]
    :{List list_<it>=new ArrayList();}; separator="\n"
>
ruleReturnValue() ::= <<
    [if(!ruleDescriptor.isSynPred)]
    [if(ruleDescriptor.hasReturnValue)]
    [if(ruleDescriptor.hasSingleReturnValue)]
    [ruleDescriptor.singleValueReturnName]
    [else]
    retval
    [endif]
    [endif]
    [endif]
>
ruleCleanUp() ::= <<
    [ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n"
    ]
    [ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n"
    ]
    [if(ruleDescriptor.hasMultipleReturnValues)]
    retval.stop = input.LT(-1);<\n
    [endif]
    [if(memoize)]
    [if(backtracking)]
    if ( backtracking > 0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
    [endif]
    [endif]
>
/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */

throw(antlr3::BaseRecognitionException)
{
  <if(trace>)
antrl3::Tracer trace(this,"<ruleName>");
<endif>
antrl3::CountScope nestingTracker(this->ruleNestingLevel);
StreamType& input(this->getInput());
<if(nakedBlock)>
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
</block>
<else>
tokenid_type type = <tokenPrefix()> <ruleName>;
channel_type channel = antlr3::Token::DEFAULT_CHANNEL;
position_type start(input.getPosition());
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
</block>
</if>
<if(nakedBlock)>
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
</block>
</else>
<! create token if none exists *and* we are an outermost token rule !>
<execAction({if ( this->token == 0 && this->ruleNestingLevel == 1 )
  TokenType *tt = TokenBuilder::build(type,start,input,channel);
  std::cout "(" << (*tt) << std::endl;
  this->emit(tt);
  } <<
  })>
<endif>
   
/** How to generate code for the implicitly-defined lexer grammar rule
   * that chooses between lexer rules.
   */
tokensRule(ruleName,nakedBlock,block,ruleDescriptor) ::= <<
void mTokens() throw(antlr3::BaseRecognitionException)
{
StreamType& input(this->getInput());
<block>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,
maxK,maxAlt,description) ::= <<
// block <fileName>::<description>
decision_type alt<decisionNumber>==<maxAlt>;
<decls>
<pre><code>/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // ruleBlock <fileName>:<description>
  decision_type alt<decisionNumber>==<maxAlt>;
  <decls>
  @@predecision()
  <decision>
  @@postdecision()
  switch (alt<decisionNumber>) {
      <alts:altSwitchCase()>
  }
  @@postbranch()
>>

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 {
</code></pre>
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 */
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;
  >>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt) ::= <<
  // alt <fileName>::<description>
  {
    <@declarations()>
    <elements:element()>
    <@cleanup()>
  }
>>

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  // element <fileName>::<description>
  <@prematch()>
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex) ::= <<
  // tokenRef
  <if(label)>
  <label> = input.LT(1);<\n
  <endif>
  this->match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);<\n
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID no AST building */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
  <tokenRef(...)
  <listLabel(...)>
>>
listLabel(label) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<label>); <<
>>

/** match a character */
charRef(char,label) ::= <<
// charRef
<if(label)>
<tokenId_type()> <label> = input.LA(1);<
>endif>
this->match(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b) ::= "this->matchRange(<a>,<b>); <checkRuleBacktrackFailure>()"

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
// matchSet
<if(label)>
<label> = input.LT(1);<
>endif>
if ( <s> )
{
<postmatchCode>
input.consume();
<if(!LEXER)>
errorRecovery=false;
<endif>
<if(backtracking) failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse(input.getPosition(),input.LA(1));
<@mismatchedSetException()>
<if(!LEXER)>
this->recover(mse);
<else>
this->recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
throw mse;
} <<
>>
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);<\n
  <endif>
  this->matchAny( input );
  <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label, elementIndex) ::= "<<
  <wildcard(...)>
  <listLabel(...)>
>>

/** Match . wildcard */
wildcardChar(label, elementIndex) ::= "<<
  <if(label)>
  <tokenid_type()> <label> = input.LA(1);<\n
  <endif>
  this->matchAny();
  <checkRuleBacktrackFailure()>
>>

tokenid_type() ::= "<if(LEXER)>char_type<else>tokenid_type<endif>"

wildcardCharListLabel(label, elementIndex) ::= "<<
  <wildcardChar(...)>
  <listLabel(...)>
>>

/** Match . wildcard */
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. */

ruleRef(rule, label, elementIndex, args) ::= <<
    following.push(FOLLOW_<rule>_in_<ruleName><elementIndex>);
    <if(label)>
    <label>=<rule>(<args>);<\n>
    <else>
    <rule>(<args>);<\n>
    <endif>
    following.pop();
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
ruleRefAndListLabel(rule, label, elementIndex, args) ::= <<
    <ruleRef(...)>
    <listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule, label, args) ::= <<
    <if(label)>
    position_type <label>Start(input.getPosition());
    m<rule>(<args>);
    <checkRuleBacktrackFailure()>
    TokenType* <label> = TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
    <else>
    m<rule>(<args>);
    <checkRuleBacktrackFailure()>
    <endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
    <if(label)>
    position_type <label>Start(input.getPosition());
    match(EOF);
    <checkRuleBacktrackFailure()>
    TokenType* <label> = TokenBuilder::build(Token.EOF,<label>Start,input,Token.DEFAULT_CHANNEL);
    <else>
    match(EOF);
    <checkRuleBacktrackFailure()>
    <endif>
>>
/** match ^\(root children\) in tree parser */
tree(root, children, nullableChildList) ::= <<
  <root:element()>
  <if(nullableChildList)>
  if ( input.LA(1)==antlr3::Token::DOWN ) {
    match(input, antlr3::Token::DOWN, null);
    <children:element()>
    match(input, antlr3::Token::UP, null);
    <children:element()>
  }<else>
  match(input, antlr3::Token::DOWN, null);
  <children:element()>
match(input, antlr3::Token::UP, null);
<children:element()><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=";" else >
else
{
<if(eotPredictsAlt)><alt<decisionNumber> = <eotPredictsAlt>;<
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);
</@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) ::= <<
<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.
 */
daLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse "><n>
<if(eotPredictsAlt)>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<n>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
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)>&& (<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>;
    <else>
    NoViableAltException nvae( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );
    throw nvae;
    < 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>
    } <\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) ::= <<
    // dfaDecision
}
alt<decisionNumber> = predictDFA<decisionNumber>(input);

/** The overall cyclic DFA chunk; contains all the DFA states */
cyclicDFA(dfa) ::= <<
  // cyclic    = <dfa.cyclic>
  // numstates = <dfa.numberOfStates>

  // startState = <dfa.startState>
  // startState NumberOfTransitions = <dfa.startState.NumberOfTransitions>
  // startState lookaheadDepth = <dfa.startState.LookaheadDepth>

  const static short <name>dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] = {
    <dfa.eot; wrap="\n      ", separator="","", null="-1"}
  }
  const static short <name>dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] = {
    <dfa.eof; wrap="\n      ", separator="","", null="-1"}
  }
  const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = {
    <dfa.min; wrap="\n      ", separator="","", null="0"
  }
  const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] = {
    <dfa.max; wrap="\n      ", separator="","", null="0"
  }
  const static short <name>dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] = {
    <dfa.accept; wrap="\n      ", separator=""", null="-1"
  }
  const static short <name>dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] = {
    <dfa.special; wrap="\n      ", separator=""", null="-1"
  }

  <dfa.edgeTransitionClassMap.keys:{ table |
    const static short <name>dfa<dfa.decisionNumber>_transition<i0>[] = {
      <table; separator=" "", wrap="\n        ", null="-1"
    }
  }

  const static short <name>dfa<dfa.decisionNumber>_transition[] = {
    <dfa.transitionEdgeTables:{whichTable|<name>dfa<dfa.decisionNumber>_transition<whichTable>,;
      separator="\n        ", null="0 /* fixme? */"}
  }

  <! add attribute for the DFA !>
  DFA<char_type> dfa<dfa.decisionNumber>;
  <! this should go in the initializer of the thing
  - (id) init
  |
  if ((self = [super init]) != nil) {
    eot = <name>dfa<dfa.decisionNumber>_eot;
eof = <name>dfa<dfa.decisionNumber>._eof;
min = <name>dfa<dfa.decisionNumber>._min;
max = <name>dfa<dfa.decisionNumber>._max;
accept = <name>dfa<dfa.decisionNumber>._accept;
special = <name>dfa<dfa.decisionNumber>._special;
if (!transition = calloc(<dfa.numberOfStates>, sizeof(void*))) {
    [self release];
    return nil;
}
<dfa.transitionEdgeTables:{whichTable|transition[<i0>] =
    <name>dfa<dfa.decisionNumber>._transition<whichTable>;}; separator="\n", null=""}
return self;
}
!

<if(dfa.specialStateSTs)>
int specialStateTransition( int state )
{
    int s = state;
    switch ( s ) {
    <dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">}
    <if(backtracking)>
    if ( recognizer.isBacktracking() ) {
        recognizer.setFailed();
        return -1;
    }
    noViableAlt(s, input);
    }
    <endif>
}</if(dfa.specialStateSTs)>
// <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 */ );
}</if(dfa.specialStateSTs)>

// <dfa.description>
/** A state in a cyclic DFA */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  // cyclicDFAState
  s<stateNumber>: {
    <if(semPredState)>
    input.rewind();
    <else>
    <tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(1);
    <endif>
    <edges>
    <if(needErrorClause)>
    throw NoViableAltException( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );
    <endif>
  } <<
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what state to jump to next if successful. */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  // cyclicDFAEdge
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>)
  {
    input.consume();
    goto s<targetStateNumber>;
  } <<
>>

/** 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="||">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= "
<if(scope.attributes)>
protected static class <scope.name> {
  <scope.attributes:[<it.decl>;]; separator="\n"}
protected Stack <scope.name>_stack = new Stack();
<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) ::= "

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

ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<
>>&gt;

returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> {
    <labelType> start, stop;
    <if(buildAST)>
        <ASTLabelType> tree;
    <else>
        <if(buildTemplate)>
            StringTemplate st;
        <endif>
    <endif>
    <endif>
    <scope.attributes:{<it.decl>;}; separator="\n">;
    <endif>
}&gt;

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator="\n">;
>>&gt;

/** Used in codegen.g to translate $x.y references.
 * I could have left actions as StringTemplates to be inserted in
 * the output (so they could use attributes inherited from surrounding
 * templates), but really wanted to pass in AttributeScope and Attribute
 * objects so this translation could query them. So, translation of

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* $x.y to executable code occurs before recognizerST.toString() occurs.
* I.e., actions are just text strings during final code generation.
*/
globalAttributeRef(scope,attr) ::= <<
  ((<scope>_scope)<scope>_stack.peek()).<attr.name>
>>

parameterAttributeRef(attr) ::= ":"<attr.name>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
  <if(negIndex)>
    ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
  <else>
    <if(index)>
      ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
    <else>
      ((<scope>_scope)<scope>_stack.peek()).<attr.name>
    <endif>
  <endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {{function.size()>0 && function::name.equals("foo")}?*/
isolatedDynamicScopeRef(scope) ::= ":<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.singleValueReturnType)>
    <scope>
  <else>
    <scope>.<attr.name>
  <endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.singleValueReturnType)>
    <attr.name>
  <else>
    retval.<attr.name>
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= ":<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref Stemplate or Stree 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> )
   |
if ( backtracking == 0 )
{

}
else

>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[]{<words64:{<it>L};separator","});
>>

tokenPrefix() ::= "TOK_"
codeFileExtension() ::= ".cpp"
// used in CPPTarget.java to generate the headerfile extension
headerFileExtension() ::= ".h"
true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/antlr-3-3-sources-jar/antlr/codegen/templates/CPP/CPP.stg

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/
group ASTDbg;

ANTLRDebugTreeAdaptor *adaptor = [ANTLRDebugTreeAdaptor newANTLRDebugTreeAdaptor:(id)dbg
Adaptor:[ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor];

// fix this
- (void) setTreeAdaptor:(id<ANTLRTreeAdaptor>)anAdaptor
{|  
adaptor = [ANTLRDebugTreeAdaptor newANTLRDebugTreeAdaptor:dbg Adaptor:anAdaptor];
<if(grammar.grammarIsRoot)>  
adaptor = [ANTLRDebugTreeAdaptor newANTLRDebugTreeAdaptor:adaptor withDBG:dbg];
<else>  
adaptor = (ANTLRDebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
<endif><\n>
<grammar.directDelegates:{g|<g:delegateName()> setTreeAdaptor:adaptor;}>}

- (id<ANTLRTreeAdaptor>)getTreeAdaptor
{|  
return adaptor;
}\n
>>

createListenerAndHandshake() ::= <<
<super.createListenerAndHandshake()>
>>

ANTLRDebugEventSocketProxy proxy =
[ANTLRDebugEventSocketProxy newANTLRDebugEventSocketProxy:self, port, <if(TREE_PARSER)>[input
getTreeAdaptor]else>adaptor<endif>;]
[self setDebugListener:proxy];
[self set<inputStreamType>:ANTLRANTLRDebug<inputStreamType>];
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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];
<endif>

>>

treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"

rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/ANTLR-3-3-sources-jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
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*/

/** Templates for building ASTs during normal parsing.
 *  
 *  Deal with many combinations. Dimensions are:
 *  * Auto build or rewrite
 *  * no label, label, list label (label/no-label handled together)
 *  * child, root
 *  * token, set, rule, wildcard
 *  *
 *  * The situation is not too bad as rewrite (->) usage makes ^ and !
 *  * invalid. There is no huge explosion of combinations.
 */
group ASTParser;

@rule.setErrorReturnValue() ::= <<
/* ASTParser rule.setErrorReturnValue */
retval.tree = (<ASTLabelType> *)[treeAdaptor errorNode:input From:retval.startToken To:[input LT:-1]
Exception:re];
<! System.out.println("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token, label, elementIndex, hetero) ::= <<
/* ASTParser tokenRef */
<super.tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
[treeAdaptor addChild:<label>_tree toTree:root_0];
/* ID! and output=AST (same as plain tokenRef) */
/* ASTParser tokenRefBang */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType> *)(treeAdaptor becomeRoot:<label>_tree old:root_0)
@if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
/* ASTParser tokenRefBangAndListLabel */
<tokenRefBang(...)> 
<listLabel(elem=label,...)> 
>>

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

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

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
/* ASTParser matchSet */
<super.matchSet(..., postmatchCode={ <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    [treeAdaptor addChild:<createNodeFromToken(...) >toTree:root_0 ];})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|[...C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */
<if(label)>
<label>=(<labelType>)[input LT:1];<\n>
<endif>
<super.matchSet(..., postmatchCode={ <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...) >old:root_0;])>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>;
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
[treeAdaptor addChild:[<label> getTree] >toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] >old:root_0];
>>
/** x+=rule when output=AST */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefAndListLabel */
<ruleRef(...)>  
<listLabel(elem = "["+label+"getTree"]",...)>  
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefBangAndListLabel */
<ruleRefBang(...)>  
<listLabel(elem = "["+label+"getTree"]",...)>  
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>  
<listLabel(elem = "["+label+"getTree"]",...)>  
>>

// WILDCARD AST

wildcard(label, elementIndex) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>  
    [treeAdaptor addChild:[[treeAdaptor createTree:<label>] retain] toTree:root_0];  
<if(backtracking)>}<endif>  
>>

wildcardBang(label, elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label, elementIndex) ::= <<
/* ASTParser wildcardRuleRoot */
<super.wildcard(...)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>  
    <label>_tree = [[treeAdaptor createTree:<label>] retain]  
    root_0 = (<ASTLabelType>*)[[treeAdaptor becomeRoot:<label>_tree old:root_0];  
<if(backtracking)>}<endif>  
>>

createNodeFromToken(label, hetero) ::= <<
/* ASTParser createNodeFromToken */
<if(hetero)>  
[ANTLR<hetero> newANTLR<hetero>:<label>] <! new MethodNode(IDLabel) !>  
<else>  
(<ASTLabelType>*)[[treeAdaptor createTree:<label>] retain]  
</if(hetero)>
/** ASTParser ruleCleanUp */
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate> ) {<
><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
[treeAdaptor setTokenBoundaries:retval.tree From:retval.startToken To:retval.stopToken];
<if(backtracking)>}<endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-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>
>>
```

Add a variable to track last element matched */
```
ruleInitializations() ::= <<
  <super.ruleInitializations()>
  _last = NULL;<\n>
  _first_0 = NULL;<\n>
>>
```

What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
```
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
  <if(rewriteMode)>
    retval.tree = (<ASTLabelType>)_first_0;
    if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, ADAPTOR->getParent(ADAPTOR, retval.tree) ) )
    {
      retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
    }
  <endif>
  <if(backtracking)>}<endif>
>>
```

match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
```
tree(root, actionsAfterRoot, children, nullableChildList,
_enclosingTreeLevel, treeLevel) ::= <<
  _last = (<ASTLabelType>)LT(1);
  {
    <ASTLabelType> _save_last_<treeLevel>;
    <ASTLabelType> _first_<treeLevel>;
    <if(!rewriteMode)>
      <ASTLabelType> root_<treeLevel>;
    <endif>
    _save_last_<treeLevel> = _last;
    _first_<treeLevel> = NULL;
    <if(!rewriteMode)>
      root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
    <endif>
    <root:element()>
      <if(!rewriteMode)>
        <if(backtracking)>
          if ( BACKTRACKING ==0 ) {
            <endif>
            <if(root.el.rule)>
              if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
              <else>
              if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>;
              <endif>
            <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>;
      }<n>
    }<\n>
  }>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add */
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
    _last = (ASTLabelType)LT(1);
    <super.tokenRef(...)>
    >>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
    _last = (ASTLabelType)LT(1);
    <super.tokenRef(...)>
    >>

/** 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>)LT(1);
  <super.wildcard(...)
  <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
      <label>_tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
      ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
    }<if(backtracking)>}
  <else> <! rewrite mode !>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  </if(!rewriteMode)>
  >>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
    <if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
      <label>_tree = <hetero>New(<label>);
    }<if(backtracking)>}
    <else>
      <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
    </if(!rewriteMode)>
    ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
    <if(backtracking)>}
  }>
  >>

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

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.matchSet(...)
  >>
matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ){<endif>
    <if(hetero)>
    <label>_tree = <hetero>New(<label>);
    <else>
    <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
    <endif>
    root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
    <if(backtracking)>}<endif>
    <endif>
    }
  })>
  >
  >>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )
  {
  <endif>
  <if(!rewriteMode)>
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
  <else>
  if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
  <endif>
  <if(backtracking)>}<endif>
  >
  >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>;
  <super.listLabelAST(elem=label,...)> 
  >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_<treeLevel> =
  (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
  <endif>
  >>
/** ^{x+=rule ...} auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <super.listLabelAST(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefTrack(...)>
>>

/** ^{(rule ...)} rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRootTrack(...)>
>>

/** ^{(x+=rule ...)} rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to * change nextToken to nextNode. */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  <hetero>New(stream_<token>->nextNode(stream_<token>))
  <else>
  stream_<token>->nextNode(stream_<token>)
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp(...)>
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {<
  <endif>
  <if(!ruleDescriptor.isSynPred)>


retval.stop = LT(-1);
}

retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);

if(backtracking)
{
}

ruleDescriptor.allTokenRefsInAltsWithRewrites
{:if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n"

ruleDescriptor.allRuleRefsInAltsWithRewrites
{:if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n"

Found in path(s):
*/opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
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*/

/** 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 ( 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;

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<else>
if ( _first._enclosingTreeLevel == null ) _first._enclosingTreeLevel = <root.el.label>;</n>
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList()>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    }
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root._enclosingTreeLevel, root._treeLevel);
<endif>
_last = _save_last._treeLevel;
}


// 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>
<in>
adaptor.addChild(root._treeLevel, <label>_tree);
<if(backtracking)> } <endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token, label, elementIndex, hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

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

// SET AST

matchSet(s, label, hetero, elementIndex, postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><
>root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
}
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>=null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
</listLabel(elem=label+.getTree()",....>}
>>
/** *(rule ...)* auto construct *\/
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
   _last = (<ASTLabelType>)input.LT(1);
   <super.ruleRef(…)>  
   <if(!rewriteMode)>
   <if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
   (<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
   <endif>
   >>

/** *(x+=rule ...)* auto construct *\/
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
   <ruleRefRuleRoot(…)>  
   <listLabel(elem=label+".getTree()",...)>
   >>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
cREATERewriteNodeFromElement(token,hetero,scope) ::= <<
   <if(hetero)>
   new <hetero>(stream_<token>.nextNode())
   <else>
   stream_<token>.nextNode()
   <endif>
   >>

ruleCleanUp() ::= <<
   <super.ruleCleanUp()>
   <if(!rewriteMode)>
   <if(backtracking)>if ( state.backtracking==0 ) {
   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"
```

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/templates/messages/formats/vs2005.stg
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*/

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CSharp3Target.java
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/**
 * Template overrides to add debugging to normal Java output;
 * If ASTs are built, then you'll also get ASTDbg.stg loaded.
 */

@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)
public static readonly string[] ruleNames =
new string[]
{
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator=", ">
};\n
@endif
@if(grammar.grammarIsRoot)<! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
@if(profile)
<ctorForProfilingRootGrammar()>
#else
<ctorForRootGrammar()>
<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
@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()>

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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(input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state) : base(input, state) {
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g.delegateName()>=new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g.delegateName()>>});}; separator="\n">
    <@finally()>
}

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) {
Profiler p = (Profiler)dbg;
p.setParser(this);
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
<g:delegateName()> } > );}; separator="\n">
  @finally()>
 }
 <\n>
>
/** Basically we don’t want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: base( input, dbg, state )
{
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|,
<g:delegateName()> } > );}; separator="\n">
  @finally()>
 }
 <\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()>

/*
* Many of the following rules were merged into CSSharp2.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();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n
//}}

//@rule.postamble() ::= <<
//dbg.ExitRule( GrammarFileName, "<ruleName>" );
//DecRuleLevel();
//if ( RuleLevel == 0 )
//}}
//dbg.Terminate();
// Common debug event triggers used by region overrides below

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "enterSubRule() enterDecision()"
//@block.postdecision() ::= "exitDecision()"
//@block.postbranch() ::= "exitSubRule()"
//@ruleBlock.predecision() ::= "enterDecision()"
//@ruleBlock.postdecision() ::= "<exitDecision()>"><
//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>"><
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>"><
//@positiveClosureBlock.predecision() ::= "<enterDecision()>"><
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>"><
//@positiveClosureBlock.earlyExitException() ::= "dbg.RecognitionException( eee<decisionNumber> );<\n>"
//@closureBlock.preloop() ::= "<enterSubRule()>"><
//@closureBlock.postloop() ::= "<exitSubRule()>"><
//@closureBlock.predecision() ::= "<enterDecision()>"><
//@closureBlock.postdecision() ::= "<exitDecision()>"><
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
//@element.prematch() ::= "dbg.Location( <it.line>, <it.pos> );"<
//@matchSet.mismatchedSetException() ::= "dbg.RecognitionException( mse );"<
//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"<
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"<
//@dfaDecision(decisionNumber,description) ::= <<
//try
//{<\n//isCyclicDecision = true;<\n//:super.dfaDecision(...)>
//:}
//catch ( NoViableAltException nvae )
//:}
//dbg.RecognitionException( nvae );
//:throw nvae;
static void Error(NoViableAltException nva)
{
    ((DebugParser)recognizer).dbg.RecognitionException(nva);
}

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(<pred>, "<description>")
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp2/Dbg.stg

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*/

/*
* This code generating template and the associated C runtime was produced by:
* Jim Idle jimihereisanatidlendotgoeshere\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>
 * Editing it, at least manually, is not wise.
 * C language generator and runtime by Jim Idle, jimihereisanatidlendotgoeshere\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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#include "<name>.h"

/** 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.
 */

<literal:{static ANTLR3_UCHAR	lit_<i>[]  = <it>;}; separator="\n"
/* 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(snarfl0->blarg) and allows me to rejig
* the runtime interfaces without changing the generated code too often, without
* confusing the reader of the generated output, who may not wish to know the gory
* details of the interface inheritance.
*/

#define CTX ctx

/* Aids in accessing scopes for grammar programmers
*/
#undef SCOPE_TYPE
#undef SCOPE_STACK
#undef SCOPE_TOP
#define SCOPE_TYPE(scope)   p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope)  p<name>_##scope##Stack
#define SCOPE_TOP(scope)    ctx->p<name>_##scope##Top
#define SCOPE_SIZE(scope)   ctx->p<name>_##scope##Stack_limit
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

<if(LEXER)>

/* Macros for accessing things in a lexer
*/
#undef LEXER
#undef RECOGNIZER
#undef RULEMEMO
#undef GETCHARINDEX
#undef GETLINE
#undef GETCHARPOSITIONINLINE
#undef EMIT
#undef EMITNEW
#undef MATCHC
#undef MATCHS
#undef MATCHRANGE
#undef LTOKEN
#undef HASFAILED
#undef FAILEDFLAG
#undef INPUT
#undef STRSTREAM
#undef LA
#undef HASEXCEPTION

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#ifndef EXCEPTION
#ifndef CONSTRUCTEX
#ifndef CONSUME
#ifndef LRECOVER
#ifndef MARK
#ifndef REWIND
#ifndef REWINDLAST
#ifndef BACKTRACKING
#ifndef MATCHANY
#ifndef HAVEPARSERULE
#ifndef GETTEXT
#ifndef INDEX
#ifndef SEEK
#ifndef PUSHSTREAM
#ifndef POPSTREAM
#ifndef SETTEXT
#ifndef 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(t)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 L_TOKEN LEXSTATE->token
#define HASFAILED()LEXSTATE->failed == ANTLR3_TRUE
#define BACKTRACKINGLEXSTATE->backtracking
#define FAILEDFLAGLEXSTATE->failed
#define INPUTLEXER->input
#define STRSTREAMINPUT
#define ISTREAMINPUT->istream
#define INDEX(IStream)ISTREAM->index(IStream)
#define SEEK(n)ISTREAM->seek(IStream, n)
#define EOF_TOKEN&(LEXSTATE->tokSource->eofToken)
#define HASEXCEPTION()LEXSTATE->error == ANTLR3_TRUE
#define EXCEPTIONLEXSTATE->exception
#define CONSTRUCTEX(RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER()LEXER->recover(LEXER)
#define MARK()ISTREAM->mark(IStream)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(ri, si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define 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)
  #ifdef ANTLR3_INLINE_INPUT_8BIT
    #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++; } }
#else
  #define NEXTCHAR((pANTLR3_UINT8)(INPUT->nextChar))
  #define DATAP((pANTLR3_UINT8)(INPUT->data))
#endif
INPUT->charPositionInLine = 0; \ 
INPUT->currentLine = (void *)(NEXTCHAR + 1); \ 
} \ 
INPUT->nextChar = (void *)(NEXTCHAR + 1); \ 
} \ 
} \ 
}

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)

#endif
<endif>
<if(PARSER)>
/* Macros for accessing things in the parser */

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSERDRULE
#undef MEMOIZE
#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 INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSERctx->pParser
#define RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSERDULE(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 EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACKPSRSTATE->following
#ifdef SKIP_FOLLOW_SETS
#define FOLLOWPUSH(x)
#define FOLLOWPOP()
#else
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#endif
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) INPUT->istream->_LA(ISTREAM, n)
#define LT(n) INPUT->_LT(INPUT, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define PerrORRECOVERYPSRSTATE->errorRecovery
#define FAILEDFLAGPSRSTATE->failed
#define HASFAILED()(FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKINGPSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMOPSRSTATE->ruleMemo
#define DBGRECOGNIZER->debugger
<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser */
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSERDRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef BACKTRACKING
#undef ADAPTOR
#undef RULEMEMO
#undef SEEK
#undef INDEX
#undef DBG

#define PARSERctx->pTreeParser
#define RECOGNIZERParser->rec
#define PSRSTATErecognizer->state
#define HAVEPARSERDRULE(r)recognizer->alreadyParsedRule(RECOGNIZER, r)
#define INPUTPARSER->ctnstream
#define STREAMINPUT->tnstream->istream
#define STREAMINPUT->tnstream
#define HASEXCEPTION((PSRSTATE->error == ANTLR3_TRUE))
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) ISTREAM->_LA(ISTREAM, n)
#define LT(n) INPUT->tnstream->_LT(INPUT->tnstream, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILED PSRSTATE->failed
#define HASFAILED() (FAILED == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define INDEX() ISTREAM->index(ISTREAM)
#define DBG RECOGNIZER->debugger

#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8)txt

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
 * then for the present you must use different names for your defines as these are hard coded
 * in the code generator. It would be better not to use such names internally, and maybe
 * we can change this in a forthcoming release. I deliberately do not #undef these
 * here as this will at least give you a redefined error somewhere if they clash.
 */
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/* ============== */
* Functions to create and destroy scopes. First come the rule scopes, followed
* by the global declared scopes.
*/

<rules: {r |<if(r.ruleDescriptor.ruleScope)>}
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>}
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>}
<endif}>}

<recognizer.scopes: {<if(it.isDynamicGlobalScope)>}
<globalAttributeScopeFuncDecl(scope=it)>}
<globalAttributeScopeFuncs(scope=it)>}
<endif}>}

/* ============================================================================= */
/* ==============================================================*/
/* Start of recognizer */
/* */
</recognizer>

/* End of code */
/* ==============================================================*/
/* */

>>

headerFileExtension() ::= ".h"

headerFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals

) ::= <<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>

has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
*
<endif>
* The methods in p<name> are as follows:
*
* <rules: {r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)> p<name>-><r.ruleDescriptor.name>(p<name>)<endif>}; separator="\n * ">
*
* The return type for any particular rule is of course determined by the source
* grammar file.
*/

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#ifdef __cplusplus
extern "C" {
#endif
// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name> _Ctx_struct <name>, * p<name>;

#ifdef ANTLR3_WINDOWS
// Disable: Unreferenced parameter,- Rules with parameters that are not used
// constant conditional,- ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable- tree rewrite variables declared but not needed
// Unreferenced local variable- lexer rule declares but does not always use _type
// potentially unitialized 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

/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/

<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

<actions.(actionScope).header>

#ifdefANTLR3_WINDOWS
// Include delegate definition header files

//
<recognizer.grammar.delegates: {gl#include\<g.recognizerName>.h} ; separator="\n">
/** Context tracking structure for <mainName()>
 */
struct <name>_Ctx_struct
{
    /* Built in ANTLR3 context tracker contains all the generic elements
     * required for context tracking.
     */
    <if(PARSER)>
        pANTLR3_PARSER    pParser;
    <endif>
    <if(LEXER)>
        pANTLR3_LEXER    pLexer;
    <endif>
    <if(TREE_PARSER)>
        pANTLR3_TREE_PARSER    pTreeParser;
    <endif>
    <if(recognizer.grammar.delegates)>
        recognizer.grammar.delegates:
            {g|p<g.recognizerName>	<g:delegateName()>;}; separator="\n"
    <endif>
    <if(recognizer.grammar.delegators)>
        recognizer.grammar.delegators:
            {g|p<g.recognizerName>	<g:delegateName()>;}; separator="\n"
    <endif>
    <scopes:{<if(it.isDynamicGlobalScope)>
                <globalAttributeScopeDef(scope=it)>}; separator="\n"
    <endif>
    <rules: {r |<if(r.ruleDescriptor.ruleScope)>
                <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>;
            </if>}; separator="\n"
    <if(LEXER)>
        <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
                    (*m<r.ruleDescriptor.name>)	(struct <name>_Ctx_struct * ctx&eacute;r.ruleDescriptor.parameterScope(scope=it)>);
            </if>}; separator="\n"
    <endif>
    <if(!LEXER)>
        <rules:{r |<headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>)	(struct
                    <name>_Ctx_struct * ctx&eacute;r.ruleDescriptor.parameterScope(scope=it)>);
            </if>}; separator="\n"
    <endif>

    <! generate rule/method definitions for imported rules so they
    appear to be defined in this recognizer. !>
// Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor}>
  <headerReturnType(ruleDescriptor)> (*<ruleDescriptor.name>)(struct <name>_Ctx_struct *
ctx<if(ruleDescriptor.parameterScope), <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>); 
separator="\n";
@end>

const char * (*getGrammarFileName)();
void (*reset) (struct <name>_Ctx_struct * ctx);
void (*free) (struct <name>_Ctx_struct * ctx);
@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[];
@end>

/** 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.
 */
#endifEOF
#endifEOF
#defineEOFANTLR3_TOKEN_EOF
#endif

tokens:{#define <it.name> <it.type>}; separator="\n"
ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/** End of token definitions for <name> */
*/
/** \} */

#ifdef __cplusplus
}
#endif
#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

inputType() ::= <<<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>

Open Source Used In imicampaign 6.2.0  2842
headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>")

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>

// Produce the lexer output
//
lexer( grammar,
name,
tokens,
scopes,
rules,
numRules,
labelType="pANTLR3_COMMON_TOKEN",
filterMode,
superClass) ::= <<
<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
 * this is a filter mode lexer.
 */
static pANTLR3_COMMON_TOKEN <name>NextToken   (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
 * lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
 * than just BACKTRACKING. In some cases this might generate code akin to:
 * if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
 * However, I assume that the C compilers/optimizers are smart enough to work this one out
 * these days - Jim
 */
#undef		MEMOIZE
#define		MEMOIZE(ri,si)			if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING > 1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER, r); }

/* 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</if><r.ruleDescriptor.name>    (p<name> ctx<r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
static void <name>Free(p<name> ctx);

/* =========================================================================
* Lexer matching rules end.
* ========================================================================= */
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> <actions.lexer.members>
static void <name>Free  (p<name> ctx)
{
<if(memoize)>
if(RULEMEMO != NULL) 
{
RULEMEMO->free(RULEMEMO);
RULEMEMO = NULL;
}
<endif>
<if(grammar.directDelegates)>
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()>::pLexer->rec->state = NULL;
    ctx-><g:delegateName()>::free(ctx-><g:delegateName()});}; separator="\n">
<endif>
LEXER->free(LEXER);

ANTLR3_FREE(ctx);
}

static void <name>Reset (p<name> ctx)
{

RECOGNIZER->reset(RECOGNIZER);
}

/** 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;
}

;if(filterMode) {
    <filteringNextToken()>
}<endif>

/** rief 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()>}>);
}

/** rief 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);<sep>/* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

/* Install the implementation of our <name> interface */
<rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> = m<r.ruleDescriptor.name>;<endif>}; separator="\n";>

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE
 * it will call mTokens() in this generated code, and will pass it the ctx
 * pointer of this lexer, not the context of the base lexer, so store that now.
 */
ctx->pLexer->ctx = ctx;
/** Install the token matching function */
ctx->pLexer->mTokens = (void (*)(void *))(mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;
ctx->reset = <name>Reset;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()> = <g:recognizerName>NewSSD(instream, ctx->pLexer->rec->state, ctx<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()> = <g:delegateName()>;}; separator="\n">
<endif>
<if(filterMode)>
/* We have filter mode turned on, so install the filtering nextToken function */
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

/* Return the newly built lexer to the caller */
return ctx;
}
<if(cyclicDFAs)>

/* ==============================================================
 * DFA tables for the lexer */
<if(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 */
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->istream->getCharPositionInLine(lexer->input);
state->tokenStartLine = lexer->input->istream->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. */

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",
        (pANTLR3_UINT8) "\<EOR>",
        (pANTLR3_UINT8) "\<DOWN>",
        (pANTLR3_UINT8) "\<UP>",
        <tokenNames:{(pANTLR3_UINT8) <it>}; separator="\\n"}
    }
    <endif>

    <@members>
// 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)> <name>Reset (p<name> ctx);</if>r.ruleDescriptor.parameterScope:parameterScope(scope=it)>}; separator="\n";>
static void <name>Free(p<name> ctx);
static void <name>Reset (p<name> ctx);

@if(!LEXER)
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
@if(recognizer.grammar.delegatedRules)
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)><ruleDescriptor.name>(p<name> ctx)<if(ruleDescriptor.parameterScope)> <name>Reset (p<name> ctx);</if>r.ruleDescriptor.parameterScope:parameterScope(scope=it)>}; separator="\n";>

@end
@end

/* 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.
 * */
ANTLR3_API p<name> <name>New (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()}>})
{
// See if we can create a new parser with the standard constructor
//
return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** \brief Create a new <name> parser and return a context for it.
*  
* \param[in] instream Pointer to an input stream interface.
*  
* \return Pointer to new parser context upon success.
*  */
ANTLR3_API p<name> <name>NewSSD (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()}>})
{
p<name> ctx; /* Context structure we will build and return */

ctx= (p<name>)ANTLR3_CALLOC(1, sizeof(<name>));

if(ctx == NULL)
{
// Failed to allocate memory for parser context
//
return NULL;
}

/* -------------------------------------------------------------------
* Memory for basic structure is allocated, now to fill in
* the base ANTLR3 structures. We initialize the function pointers
* for the standard ANTLR3 parser function set, but upon return
* from here, the programmer may set the pointers to provide custom
* implementations of each function.
* 
* We don't use the macros defined in <name>.h here, in order that you can get a sense
* of what goes where.
* */

<if(PARSER>)
 /* Create a base parser/recognizer, using the supplied token stream
 */
ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
<endif>
<if(TREE_PARSER)>
/* Create a base Tree parser/recognizer, using the supplied tree node stream */
ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

/* Install the implementation of our <name> interface */
<rules:{r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n">;
<if(grammar.delegatedRules)>
// Install the delegated methods so that they appear to be a part of this parser
//
<grammar.delegatedRules:{ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;}; separator="\n">;
<endif>

ctx->free = <name>Free;
ctx->reset = <name>Reset;
ctx->getGrammarFileName = getGrammarFileName;

/* Install the scope pushing methods. */
<rules: {r | <if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><
>}
<endif>}>;
<recognizer.scopes:{<if(it.isDynamicGlobalScope)>
<globalAttributeScope(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>
/* Create a LIST for recording rule memos. */
RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
/* Install the token table */
PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;
/*@debugStuff()*/

/* Return the newly built parser to the caller */
return ctx;
}

static void <name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** Free the parser resources */
static void <name>Free(p<name> ctx)
{
    /* Free any scope memory */
    <rules: {r}|<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n><endif>}><recognizer.scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(scope=it)><\n><endif>}><@cleanup><@end>
    <if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to. NULL the state so we only free it once.
    //
    <grammar.directDelegates:
    [g| ctx-><g:delegateName()>::<if(TREE_PARSER)>pTreeParser<else>pParser<endif>->rec->state = NULL;
    ctx-><g:delegateName()>::free(ctx-><g:delegateName()>::);]
    separator="\n">
    <endif>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
if (RULEMEMO != NULL) {
    RULEMEMO->free(RULEMEMO);
    RULEMEMO = NULL;
}
#endif
#endif
// Free this parser
//
#if (TREE_PARSER)>
    ctx->pTreeParser->free(ctx->pTreeParser);
#else
    ctx->pParser->free(ctx->pParser);
#endif
ANTLR3_FREE(ctx);

/* Everything is released, so we can return */
return;
}

/**
 * Return token names used by this <grammarType()>
 * The returned pointer is used as an index into the token names table (using the token
 * number as the index).
 * *
 * 
 */
static pANTLR3_UINT8 *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

/* Declare the bitsets */

#if (cyclicDFAs)>
/* =========================================================================
 * DFA tables for the parser
 */
#if (cyclicDFAs:cyclicDFA())
<! dump tables for all DFA !>

...
/* =========================================================================
* End of DFA tables for the parser
*/

/* Parsing rules
*/

<rules; separator="\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()>
  }
  <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
  <ruleDescriptor.name>(ctx-
  > <ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
  <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
  <ruleDescriptor.type:attributeNames:attributes:{a|<a.name>}; separator="","">); 
  \}
}
</grammar.delegatedRules>

/* End of parsing rules
*/

/* Syntactic predicates
*/

<synpreds:{p | <synpred(predname=p)>>>
/* End of syntactic predicates
*/

>>

parser(grammar,
  name,
  scopes,
  tokens,
  tokenNames,
  rules,
numRules,
bitsets,
ASTLabelType,
superClass="Parser",
labelType="pANTLR3_COMMON_TOKEN",
members={ <actions.parser.members> }
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN", ...)>
>>
/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
labelType={ <ASTLabelType> },
ASTLabelType="pANTLR3_BASE_TREE",
superClass="TreeParser",
members={ <actions.treeparser.members> }, filterMode
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>
>>
/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc.; just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    <ruleLabelDefs()>
    <ruleLabelInitializations()>
    <if(trace)>
        ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
    </if>
ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);


else
  \block
  \ruleCleanUp()
  \}
  \endrule


// $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;
} <<


>>

lexerSynpred(predname) ::= <<
  \synpred(predname)


>>

ruleMemoization(rname) ::= <<
  \if(memoize)
  if ( (BACKTRACKING>0) && (HAVEPARSERULE(<ruleDescriptor.index>)) )
  {
    \if(!ruleDescriptor.hasMultipleReturnValues)
      \if(!ruleDescriptor.isSynPred)
          retval.start = 0;
      \endif
    \endif
    \\finalCode(finalBlock=finally)
    \if(!ruleDescriptor.isSynPred)
      \scopeClean()
    \endif
    \(ruleDescriptor.actions.after):execAfter()\n    \\finalCode(finalBlock=finally)
    \if(!ruleDescriptor.isSynPred)
      \scopeClean()
    \endif
  \endif


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return <ruleReturnValue>();
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if (HASEXCEPTION())
{
    goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (HASFAILED())
{
    <scopeClean()>
    <@debugClean()>
    return <ruleReturnValue>();
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>
if (BACKTRACKING>0)
{
    FAILEDFLAG = <true()>
    <scopeClean()>
    return <ruleReturnValue>();
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
    /**
    * $ANTLR start <ruleName>
    * <fileName>:<description>
    */
    static <returnType()> <ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
                                                <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
    {
        <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
            BACKTRACKING);
        </if>
        <ruleDeclarations()>
    }
<<}
<ruleDescriptor.actions.declarations>
<ruleLabelDefs()>
<ruleInitializations()>
<ruleDescriptor.actions.init>
<ruleMemoization(rname=ruleName)>
<ruleLabelInitializations()>
<@preamble()>
{
    <block>
}

<ruleCleanUp()>
@if(exceptions)>
    if(HASEXCEPTION())
    {
        <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}}
    }
    else
    {
        <ruleDescriptor.actions.after):execAfter()>
    }
@endif
@if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
    </if>
    if (HASEXCEPTION())
    {
        PREPORTERROR();
        PRECOVER();
        <setErrorReturnValue()>
    }
    @if(ruleDescriptor.actions.after)>
    else
    {
        <(ruleDescriptor.actions.after):execAfter()>
    }<\n>
@endif
@endif
@endif
@endif
@if(trace)>ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed, BACKTRACKING);<endif>
<memoize()>
@if(finally)>
    <finalCode(finalBlock=finally)>
@endif
finalCode(finalBlock) ::= <<
{<finalBlock>
}
>>
catch(decl,action) ::= <<
/* catch(decl,action)
*/
{
<e.action>
}
>>
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 |
<if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)><a.name> = <a.initValue>;<endif>
}>
<endif>
<if(memoize)>
_startIndex = INDEX();</if>
<endif>

<ruleDescriptor.name>_StartIndex = INDEX();
<endrule>

<ruleDescriptor.useScopes:{<scopeTop(sname=it)> = <scopePush(sname=it)>;}; separator="\n"
<ruleDescriptor.ruleScope:{<scopeTop(sname=it.name)> = <scopePush(sname=it.name)>;}; separator="\n">
>}

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>
 :{<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
 :{pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels>
 :ruleLabelDef(label=it); separator="\n"
>
>
ruleLabelInitializations() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>
 :{<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
 :{list_<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels>
 :ruleLabelInitVal(label=it); separator="\n"
>
>}

<if(ruleDescriptor.hasMultipleReturnValues)
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;
<endif>
<endif>
>
>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
 :{<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{ANTLR3_UINT32 <it.label.text>;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
 :{pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>
>>

lexerRuleLabelInit() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
:{<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
:{list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
:{<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
:{list_<it.label.text>-&gt;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&gt;0 ) { MEMOIZE(&lt;ruleDescriptor.index&gt;, &lt;ruleDescriptor.name&gt;_StartIndex); } 
<endif>
<endif>
>>
ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
go to rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{<scopePop(sname=it)>}; separator="\n">
<ruleDescriptor.ruleScope:{<scopePop(sname=it.name)>}; separator="\n">
>>
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
//   Comes from: <block.description>
/** rief 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>

  <else>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit()>
  _type = <ruleName>;

  <ruleDescriptor.actions.init>

  <block>
LEXSTATE->type = _type;
  <endif>
  <if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking =%d\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);
  <ruleCleanUp()>
  <lexerRuleLabelFree()>
  </(ruleDescriptor.actions.after):execAfter()>
  <memoize>
  }
  // $ANTLR end <ruleName>
  >>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,ruleDescriptor) ::= <<
/** This is the entry point into the lexer from an object that
* wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
*/
static void
mTokens(p<name> ctx)
{

  goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
/** A rule block with multiple alternatives */
ruleBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
    // <fileName>::<description>

    ANTLR3_UINT32 alt<decisionNumber>;

    alt<decisionNumber> = <maxAlt>;

    <decls>
    @@predecision()
    <decision>
    @@postdecision()
    @@prebranch()
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
    @@postbranch()
    }
>>

/** 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 special case of a (...) subrule with a single alternative */
    blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
    // <fileName>::<description>
    <decls>
/** 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;
    <ui>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
<decls>

@@preloop()>
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    @@predecision()>
    <decision>
    @@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    default:
        goto loop<decisionNumber>; /* break out of the loop */
        break;
    }
}
loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
@@postloop()>

>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation 
* so we can just use the normal block template 
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative 
* number. A DFA predicts the alternative and then a simple switch 
* does the jump to the code that actually matches that alternative. 
*/
altSwitchCase() ::= <<
    case <i>:
        @@prealt()>
        <it>
        break;<\n>
        >>
/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
    //=declarations()=
    //=initializations()=
    <elements:element()>
    <rew>
    //=cleanup()=
} >>

// ELEMENTS
/** What to emit when there is no rewrite. For auto build */
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element() ::= <<
    //=prematch()=
    <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
    <if(label)> <label> = (<labelType>) MATCHT(<token>,
    &FOLLOW_<token>_in_<ruleName><elementIndex>);
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
    <tokenRef(...)>
    <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
    if (list_<label> == NULL)
    {
        list_<label> = ctx->vectors->newVector(ctx->vectors);
    }
    list_<label>->add(list_<label>, <elem>, NULL);
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = LA(1);<
  <endif>
  MATCH(<char>);
  <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = 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>= LA(1);<
  <else>
    <label>=(<labelType>)LT(1);<
  <endif>
  <endif>
  if ( <s> )
  {
    CONSUME();
    <postmatchCode>
    <if(!LEXER)>
      PERRORRECOVERY=ANTLR3_FALSE;
    <endif>
    <if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<
    <endif>
  }
  else
  {
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
    <if(LEXER)>
      LRECOVER();
    <else>
      RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
    <endif>
    goto rule<ruleDescriptor.name>Ex;
  }<
  >>
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);<\n>
<endif>
MATCHANY();
<checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()>-><endif><rule.name>(ctx<if(scope)>><scope:delegateName()><endif><if(args)>, <args; separator=", "><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>><scope:delegateName()><endif> <if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);

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lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
lexerRuleRef(...)
$listLabel(elem=label,...)
>>

lexerMatchEOF(label, elementIndex) ::= <<
@if(label)
{
ANTLR3_UINT32 $label$Start$elementIndex$;
$label$Type $label$;
$label$Start$elementIndex$ = GETCHARINDEX();
MATCHC(ANTLR3_CHARSTREAM_EOF);
<checkRuleBacktrackFailure()>
$label$ = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
$label$->setType($label$, ANTLR3_TOKEN_EOF);
$label$->setStartIndex($label$, $label$Start$elementIndex$);
$label$->setStopIndex($label$, GETCHARINDEX()-1);
$label$->input = INPUT->tnstream->istream;
}
@else
MATCHC(ANTLR3_CHARSTREAM_EOF);
<checkRuleBacktrackFailure()>
@endif
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
root:element() 
<actionsAfterRoot:element()>
@if(nullableChildList)
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
/** 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>";
<un>
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

{ 
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
else
{ 
    <if(eotPredictsAlt)>
        alt<decisionNumber>==<eotPredictsAlt>;
    <else>
        <ruleBacktrackFailure();
        <newNVException();
        goto rule<ruleDescriptor.name>Ex;
    <endif>
newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state = <stateNumber>;
<@noViableAltException()>
</un>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
   int LA<decisionNumber>_<stateNumber> = LA(<k>);
   <edges; separator="\nelse ">
   }>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for (a)* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackStateDecs():= <<
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) alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
   else
   


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alt<decisionNumber>=<eotPredictsAlt>;
} <un>
<endif>
<endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied, */
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>))
{
    <targetState>
}
>>

// 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"> 

} <\n>

default:
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;<\n>
<endif>
} <\n>
>>
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
    <edges; separator="\n"> 

} <\n>
>>
dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<

switch (LA(<k>))
{
<edges; separator="\n">\n
<if(eotPredictsAlt)>
default:
    alt<decisionNumber> = eotPredictsAlt;
    break;\n
<endif>
}\n
>>

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

break;
}\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> = 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>] =
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
{
<dfa.min; wrap="\n", separator="", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
{
<dfa.max; wrap="\n", separator="", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
{
<dfa.accept; wrap="\n", separator="", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
{
<dfa.special; wrap="\n", separator="", null="-1">
};
/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL
<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T[i0][] =
{
<table; separator="", wrap="\n", null="-1">
}; }; null = "">
/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{xref|dfa<dfa.decisionNumber>_T<xref>}; separator="", wrap="\n", null=_empty">
};
<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer,
pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
ANTLR3_INT32 _s;
_s = s;
switch (s)
{
<dfa.specialStateSTs:{state |
case <i0>: 

CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<dfa.description>";
EXCEPTION->decisionNum = <dfa.decisionNumber>;
EXCEPTION->state = _s;
<@noViableAltException()>
return -1;
}
@endif

/* 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*/
    </endif>
    antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
    antlr3dfapredict, /* DFA simulator function is in the runtime */
    dfa<dfa.decisionNumber>_eot, /* EOT table */
    dfa<dfa.decisionNumber>_eof, /* EOF table */
    dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>_accept, /* Accept table */
    dfa<dfa.decisionNumber>_special, /* Special transition states */
    dfa<dfa.decisionNumber>_transitions /* Table of transition tables */
};
/** End of Cyclic DFA <dfa.decisionNumber> */

// ---------------------

/** A state in a cyclic DFA; it's a special state and part of a big switch on state. */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
            
            ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<
            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();<
            
            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>;<
            
            >>
// 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>(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)
 */
<endif>
>>

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
 */
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncDecl(scope)
 */
<endif>
>>

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
 */
<endif>
>>

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,...)>-<scopeStack(sname=scope.name,...)>_get(ctx-><scopeStack(sname=scope.name,...)>, _limit - 1));
} <endif>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
    /* ruleAttributeScopeFuncDecl(scope)
    * -----------------------------------------------------------------------------
    * Function declarations for creating a <name>_<scope.name> scope set
    * -----------------------------------------------------------------------------
    */
    static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
    static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
    /* ----------------------------------------------------------------------------- */
</if(scope.attributes)>

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
    /* ruleAttributeScopeFuncMacro(scope)
    */
    /* Function for popping the top value from a <scopeStack(sname=scope.name,...)> */
    void <scopePopName(sname=scope.name,...)>(p<name> ctx) {

// First see if the user defined a function they want to be called when a
// scope is popped/freed.
//
// If the user supplied the scope entries with a free function, then call it first
//
// if(SCOPE_TOP(<scope.name>)->free != NULL)
{
    SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
}

// Now we decrement the scope's upper limit bound. We do not actually pop the scope as
// we want to reuse scope entries if we do continuous push and pops. Most scopes don't
// next too far so we don't want to keep freeing and allocating them
//
// ctx-<scopeStack(sname=scope.name,...)>_limit--;
SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name,...)>)(ctx-<scopeStack(sname=scope.name,...)>
\>get(ctx-<scopeStack(sname=scope.name,...)>, ctx-<scopeStack(sname=scope.name,...)>._limit - 1));

<endif>
>>

globalAttributeScopeDef(scope) ::= <<
/* globalAttributeScopeDef(scope)
*/
@if(scope.attributes)
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>() */
@
 pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>._limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)> 
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct * 
cxt);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;
@endif
>>

ruleAttributeScopeDef(scope) ::= <<
@if(scope.attributes)
/* ruleAttributeScopeDef(scope)
*/
/*@** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>() */
@
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>(struct <name>_Ctx_struct * ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)
/* globalAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)
/* ruleAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)
/* globalAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)
/* ruleAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>
globalAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope) */
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
</endif>

ruleAttributeScopeFree(scope) ::= 
<< 
<if(scope.attributes)>
/* ruleAttributeScope(scope) */
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
</endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
cxt-><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 \@init action to install a pointer to a custom free() routine by adding the code:
* \code
* <scopeTop(sname=scope.name)>->free = myroutine;
* \endcode
*
* With lots of comments of course! The routine should be declared in \@members { } as:
* \code
* void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
* \endcode
*
* It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
* NB: It should not free the pointer it is given, which is the scope stack entry itself and will be freed by the function that calls your custom free routine.
 *
*/
static <scopeType(sname=scope.name)>
<scopePushName(sname=scope.name)>(p<name> ctx) {
    /* Pointer used to create a new set of attributes */
    <scopeType(sname=scope.name)> newAttributes;

    /* Allocate the memory for a new structure if we need one. */
    if ((ctx-><scopeStack(sname=scope.name)->size(ctx-><scopeStack(sname=scope.name)>) > ctx-><scopeStack(sname=scope.name)->_limit)
// The current limit value was less than the number of scopes available on the stack so
// we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
// is one less than that, or conveniently, the current value of limit.

newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>._limit);
else
// Need a new allocation
//
newAttributes = (<scopeType(sname=scope.name)>)ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
if  (newAttributes != NULL)
{
 /* Standard ANTLR3 library implementation */
    ctx-><scopeStack(sname=scope.name)>._push(ctx-><scopeStack(sname=scope.name)>, newAttributes, (void *)(void *)<scope.name>Free);
}

// Blank out any previous free pointer, the user might or might install a new one.
//
ewAttributes->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;

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

returnType() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
<\n>

<<
>"<it.name>_return"
/** Generate the C type associated with a single or multiple return value(s). */

ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
    <referencedRule.grammar.recognizerName>_<referencedRule.name>_return
    <else>
    <if(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnType>
    <else>
    void
    <endif>
    <endif>
>>

delegateName() ::= <<
    <if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "0". */

initValue(typeName) ::= <<
    = <cTypeInitMap.(typeName)>
>>

/** Define a rule label */

ruleLabelDef(label) ::= <<
    <ruleLabelType(referencedRule=label.referencedRule)>
    <label.label.text>;
    #undef RETURN_TYPE_<label.label.text>
    #define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)>
>>

/** Rule label default value */

ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope() ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
@if(!TREE_PARSER)
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
*/
pANTLR3_COMMON_TOKEN start;
pANTLR3_COMMON_TOKEN stop;
#else
<recognizer.ASTLabelType> start;
<recognizer.ASTLabelType> stop;
@endif
@ruleReturnMembers()>
@ruleReturnMembers(); separator="\n"
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
@endif
@endif
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", "
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
* grammar name directly
*/
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(!negIndex)
((SCOPE_TYPE(scope))(ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope), ctx->SCOPE_STACK(scope)->size(ctx->SCOPE_STACK(scope)) - negIndex - 1 )))-><attr.name>
@else
<<
@if(index)
((SCOPE_TYPE(scope))(ctx->SCOPE_STACK(scope)-get(ctx->SCOPE_STACK(scope), (ANTLR3_UINT32)index )))-><attr.name>
@else
(SCOPE_TOP(scope))-><attr.name>
@endif
@endif
>>
**$x is either global scope or x is rule with dynamic scope; refers to stack itself not top of stack. This is useful for predicates like {$function.size()>0 & & $function::name.equals("foo")}? */

```
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"
```

/** reference an attribute of rule; might only have single return value */

```
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>,<attr.name>
<else>
<scope>
<endif>
>>
```

```
returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval,<attr.name>
<else>
<attr.name>
<endif>
>>
```

```
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval,<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>
```

/** How to translate $tokenLabel */

```
tokenLabelRef(label) ::= "<label>"
```
/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>->getText(<scope>)->toInt32(<scope>->getText(<scope>)))"
ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>..start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>..stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>..tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>..start, <scope>..start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>..start, <scope>..stop))
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>..st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR->getTokenStopIndex(ADAPTOR, retval.start))
<else>
...
**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>
 |
>>
** 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>);<
>>

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 *
<!--endif-->
from antlr3.compat import set, frozenset
<!--end-->

<!--actions.(actionScope).header-->

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{<it.name>=<it.type>}; separator="\n">

<recognizer-->

<!--if(actions.(actionScope).main)--><actions.(actionScope).main>
<!--else-->
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
    <!--if(LEXER)-->
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>))
    <!--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

Open Source Used In imicampaign 6.2.0 2896
main.execute(argv)

if __name__ == '__main__':
    main(sys.argv)

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
      filterMode, superClass="Lexer") ::= <<
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>}; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>grammarFileName = "<fileName>"
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>"

def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input=None, state=None):
    if state is None:
        state = RecognizerSharedState()
    super(<grammar.recognizerName>, self).__init__(input, state)

<if(memoize)><if(grammar.grammarIsRoot)>self._state.ruleMemo = {}
<endif></if>

<grammar.directDelegates:
{g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
state)}; separator="\n">

<grammar.delegators:
{g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">

<last(grammar.delegators):
{g|self.gParent = <g:delegateName()>}; separator="\n">

<cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

<actions.lexer.init>

<actions.lexer.members>
/** 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

eexcept RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        <@superClassName><superClass><@end>.memoize(self, input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return <@superClassName><superClass><@end>.alreadyParsedRule(self, input, ruleIndex)
    return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="Object", labelType, members, rewriteElementType,
    init) ::= <<
    <if(grammar.grammarIsRoot)>
    # token names
    tokenNames = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
        <tokenNames; wrap, separator="", ">
    ]</
    <else>
    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="\n"}
    <rules:{<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>>

Open Source Used In imicampaign 6.2.0 2999
class `<grammar.recognizerName>`(<@superClassName><superClass><@end>):
    grammarFileName = "<fileName>"
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>"
    tokenNames = tokenNames

def __init__(self, grammar.delegators:{g|<g:delegateName()>}, input, state=None, *args, **kwargs):
    if state is None:
        state = RecognizerSharedState()

    @args()
    super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)

    @if(memoize)
    @if(grammar.grammarIsRoot)
        self._state.ruleMemo = {}
    @endif
    @endif

    @cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n"

    @scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}
    @rules:{<ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}

    @init

    @grammar.delegators:
    {g|self.<g:delegateName>() = <g:delegateName()>}; separator="\n"
    @grammar.directDelegates:
    {g|self.<g:delegateName>() = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>, self, input, state)}; separator="\n"
    @grammar.directDelegates:
    {g|self.<g:delegateName>() = <g.recognizerName>(self, grammar.delegators:{g, <g:delegateName()>}, input, state)}; separator="\n"
    @last(grammar.delegators):n
    {g|self.gParent = self.<g:delegateName()>}; separator="\n"

    @init
    @end

    @members
    @end

    @members
    @end

    <rules; separator="\n\n"
<! generate rule/method definitions for imported rules so they appear to be defined in this recognizer. !>

# Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">  

<synpreds:{p | <synpred(p)> }>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{<it>};separator="", "">])\n}>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
   <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator="", ")

>>

def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
   <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator="", ")

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="object", superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", init={<actions.parser.init>}, ...)>

>>

/** How to generate a tree parser; same as parser except the input stream is a different type. */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType=[{ASTLabelType}], ASTLabelType="Object", superClass="TreeParser", members=[{actions.treeparser.members}, filterMode]) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", init={<actions.treeparser.init>}, ...)>

>>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc... just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. * As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves. */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start "<ruleName>"

def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
    self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
    <block>
    finally:
    self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
    <else>
    <block>
    <endif>
    # $ANTLR end "<ruleName>"

>

>>
synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    <@start()>
    start = self.input.mark()
    try:
        self.<name>_fragment()
    except BacktrackingFailed:
        success = False
    else:
        success = True
    self.input.rewind(start)
    <@stop()>
    self._state.backtracking -= 1
    return success
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
    if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
        # for cached failed rules, alreadyParsedRule will raise an exception
        success = True
    return <ruleReturnValue()>
<<
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)
  if self._state.backtracking > 0:
    raise BacktrackingFailed
@end
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
@returnScope(scope=ruleDescriptor.returnScope)
  # $ANTLR start "<ruleName>"
  # <fileName>:<description>
  <ruleDescriptor.actions.decorate>
  def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
   @if(trace)
      self.traceIn("<ruleName>", <ruleDescriptor.index>)
@end
    # $ANTLR end "<ruleName>"
  # $ANTLR start "<ruleName>"'
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
    #@preamble()
    #@body><ruleBody()><@end>
    #@postamble()
    return <ruleReturnValue()>
  # $ANTLR end "<ruleName>"'
  # $ANTLR start "<ruleName>"
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
    #@preamble()
    #@body><ruleBody()><@end>
    #@postamble()
    return <ruleReturnValue()>
  # $ANTLR end "<ruleName>"'
  <ruleCleanUp()>
@end

ruleBody() ::= <<
@if(memoize)
@if(backtracking)
  success = False
@end
try:
  try:
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
  # $ANTLR start "<ruleName>"'
  # $ANTLR start "<ruleName>"'
  # $ANTLR start "<ruleName>"'
  # $ANTLR start "<ruleName>"'
  # $ANTLR start "<ruleName>"'
<if(memoize)>
<if(backtracking)>
  success = True
</if>
</if>
<endif>
<endif>
<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><EINVAL>}
</if>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  except RecognitionException, re:
    self.reportError(re)
    self.recover(self.input, re)
    @@setErrorReturnValue()
</if>
</else>
finally:
  pass
</endif>
<endif>
<endif>
finally:
<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)
</if>
<endif>
<.memoize()>
<ruleScopeCleanUp()>
<finally>
  pass
</finally>
catch(decl,action) ::= <<
  except <e.decl>:
    <e.action>
</catch>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMoreMultipleReturnValues)>
  retval = self.<ruleDescriptor.name>_return()
  retval.start = self.input.LT(1)
</if>
<else>
  <ruleDescriptor.returnScope.attributes: { a |<div></div>
<a.name> = <if(a.initValue}><a.initValue><else>None<endif>

</a.name>

</if(memoize)>

<ruleDescriptor.name>_StartIndex = self.input.index()

</endif>

>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{self.<it>_stack.append(<it>_scope())}; separator="\n"
<ruleDescriptor.ruleScope:{self.<it.name>_stack.append(<it.name>_scope())}; separator="\n"

>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{self.<it>_stack.pop()}; separator="\n"
<ruleDescriptor.ruleScope:{self.<it.name>_stack.pop()}; separator="\n"

>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
 :{list_<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelDef(label=it); separator="\n"
>
<ruleDescriptor.ruleListLabels:{<it.label.text> = None}; separator="\n"

>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.charLabels:{<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
 :{list_<it.label.text> = None}; separator="\n"
>

>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>

<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
    success = False<\n>
<endif>
<endif>
try:
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    lexerRuleLabelDefs()
<ruleDescriptor.actions.init>
<block>
<else>
<Type> = <ruleName>
_channel = DEFAULT_CHANNEL
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
self._state.type = _type
self._state.channel = _channel
<(ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
success = True
<endif>
<endif>
<endif>

finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
<endif>
<ruleScopeCleanUp()>
<memoize()>
pass

# $ANTLR end "<ruleName>"

>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block><n>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
/** A rule block with multiple alternatives */
ruleBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    <@predecision()>
    <@decision><decision><@end>
    <@postdecision()>
    <@prebranch()>
    <alts:altSwitchCase(); separator="\nel"> 
    <@postbranch()>
>>

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

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    cnt<decisionNumber> = 0
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
>>

closureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
<decls>
@@preloop()@@
@@loopBody@@
<closureBlockLoop()>@@end@@
@@postloop()>@@
>>
closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
alt<decisionNumber> = <maxAlt>
@@predecision()@@
@@decisionBody@@<decision>@@end@@
@@postdecision()@@
<alts:altSwitchCase(); separator="\nel">
else:
    break #loop<decisionNumber>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase() ::= <<
if alt<decisionNumber> == <i>:
  @prealt()
  @it
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
@declarations()
@elements:element()
rew
@cleanup()
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
  @prematch()
  @it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
"ids+=ID */

tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label, elem) ::= <<<
if list_<label> is None:
    list_<label> = []
list_<label> .append(<elem>)\n>
>>

"** match a character */
charRef(char,label) ::= <<<
<if(label)>
<label> = self.input.LA(1)\n
<endif>
self.match(<char>)
>>

"** match a character range */
charRangeRef(a,b,label) ::= <<<
<if(label)>
<label> = self.input.LA(1)\n
<endif>
self.matchRange(<a>, <b>)
>>

"** For now, sets are interval tests and must be tested inline */
mismatchedSet(s,label,elementIndex,postmatchCode="") ::= <<<
<if(label)>
<label> = self.input.LT(1)\n
<endif>
if <s>:
    self.input.consume()
    <postmatchCode>
<if(!LEXER)>
    self._state.errorRecovery = False\n
<endif>
else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    @mismatchedSetException()"
<if(LEXER)>
    self.recover(mse)
    raise mse
<else>
    raise mse
</if>

<! use following code to make it recover inline; remove throw mse;
self.recoverFromMismatchedSet(
    self.input, mse, self.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 = self.getCharIndex()
    self.match(<string>)
    <label> = CommonToken(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
    start=<label>Start, stop=self.getCharIndex()-1)
    <else>
    self.match(<string>)
    <endif>
>>

wildcard(label,elementIndex) ::= <<
    <if(label)>
    <label> = self.input.LT(1)<\n
    <endif>
    self.matchAny(self.input)
>>

wildcardAndListLabel(label,elementIndex) ::= <<
    <wildcard(...)
    <listLabel(elem=label,...)>   
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
    <if(label)>
    <label> = self.input.LT(1)<\n
    <endif>
    self.matchAny(self.input)
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)> >>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)> <label> = self.input.LA(1)<n>
<endif>
self.matchAny()
>>

/** ids+=rule */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)> >>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<label> = CommonToken(
   input=self.input,
   type=INVALID_TOKEN_TYPE,
   channel=DEFAULT_CHANNEL,
   start=<label>Start<elementIndex>,
   stop=self.getCharIndex()-1
 )
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)> >>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.match(EOF)
<label> = CommonToken(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<else>
self.match(EOF)
<endif> >>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()> <actionsAfterRoot:element()> 
<if(nullableChildList)>
    if self.input.LA(1) == DOWN:
        self.match(self.input, DOWN, None)
<children:element()> self.match(self.input, UP, None)
<else>
self.match(self.input, DOWN, None) <children:element()> self.match(self.input, UP, None)
<endif> >>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression). */
validateSemanticPredicate(pred, description) ::= <<
if not (<evalPredicate(...)>):
    <ruleBacktrackFailure()> raise FailedPredicateException(self.input, "<ruleName>", "<description>")

>>
// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)\n<edges; separator="\n">
else:
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
  <else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)\n    <@noViableAltException()>
    raise nvae\n  <endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)\n<edges; separator="\n">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for (a)* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)\n<edges; separator="\n">
<<
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>)
  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(). */

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  LA<decisionNumber> = self.input.LA(<k>)
  <edges; separator="\nel">
  else:
    <if(eotPredictsAlt)>
      alt<decisionNumber> = <eotPredictsAlt>
    </if>
    <ruleBacktrackFailure()>
      nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)\n      @noViableAltException()
      raise nvae\n    </ruleBacktrackFailure()>
  endif
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  LA<decisionNumber> = self.input.LA(<k>)
  <edges; separator="\nel">
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  LA<decisionNumber> = self.input.LA(<k>)
  <edges; separator="\nel">
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
  else:
    alt<decisionNumber> = <eotPredictsAlt>
  </if>
>>
dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{LA<decisionNumber> == <it>}; separator=" or ">
  <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, ...
 */
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="\n  ul">
)

DFA<dfa.decisionNumber>_transition = [
    <dfa.javaCompressedTransition:{s|DFA.unpack(u"<s; wrap="\n    ul">"); 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=

        <if(backtracking)>
            if self_.state.backtracking >0:
                raise BacktrackingFailed

            nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>; _s, input)
            self_.error(nvae)
            raise nvae
        </if>

    </if>

>>
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()

if s >= 0:
    return s

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>) 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> \leq LA<decisionNumber>_<stateNumber> \leq <upper>)"

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \leq self.input.LA(<k>) \leq <upper>)"

setTest(ranges) ::= "<ranges; separator=" or ">

// ATTRIBUTES

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 = []
<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 = {}
  <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
>>

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

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
    def __init__(self):
      super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

      <scope.attributes:{self.<it.decl> = None}; separator="\n"> 
      <@ruleReturnInit()>

      <@ruleReturnMembers()>

    <@ruleReturnMembers()>
  
  <endif>
>>

parameterScope(scope) ::= <<
  <scope.attributes:{<it.decl>}; separator=" , ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
  <if(negIndex)>
  self.<scope>_stack[-<negIndex>].<attr.name>
  <else>

```
/* not applying patch because of bug in action parser! */

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
  <if(negIndex)>
    self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
  <else>
    <if(index)>
      self.<scope>_stack[<index>].<attr.name> = <expr>
    <else>
      self.<scope>_stack[-1].<attr.name> = <expr>
    </endif>
  </endif>
>>

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers * to stack itself not top of stack. This is useful for predicates * like \{\$function.size() > 0 && \$function::name.equals("foo")\}? */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMoreReturnValues)>
    ((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
  <else>
    <scope>
  </endif>
>>
returnAttributeRef(ruleDescriptor, attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {#ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :( 

tokenLabelPropertyRef_text(scope, attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope, attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope, attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope, attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope, attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope, attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope, attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope, attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope, attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope, attr) ::= <<
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
) or [None]])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop]) or [None]])[0]
/** 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_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
  <action>
</else>
if <actions.(actionScope).synpredgate>:
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Python/Python.stg
No license file was found, but licenses were detected in source scan.

/*
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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

// 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 
buid order."

INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= <<
internal error: <arg> <arg2><if(exception)>: <exception><endif>
<stackTrace; separator="\n">
>>
INTERNAL_WARNING(arg) ::= "internal warning: <arg>"
ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= <<
problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">
>>
TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::= 
"problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::= 
"cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::= 
"bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::= "file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::= "file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::= "cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::= "cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::= "at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::= "cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::= "cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::= "no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::= "rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::= "lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::= "parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::= "cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::= "no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::= "reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::= "literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::= "literals are illegal in lexer tokens{ } section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::= "reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::= "unknown attribute for <arg>: <arg2>"
UNKNOWN_RULE_ATTRIBUTE(arg, arg2) ::= 
"unknown attribute for rule `<arg>`: `<arg2>`"
UNKNOWN_SIMPLE_ATTRIBUTE(arg, args2) ::= 
"attribute is not a token, parameter, or return value: `<arg>`"
ISOLATED_RULE_SCOPE(arg) ::= 
"missing attribute access on rule scope: `<arg>`"
INVALID_RULE_PARAMETER_REF(arg, arg2) ::= 
"cannot access rule `<arg>`’s parameter: `<arg2>`"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg, arg2) ::= 
"cannot access rule `<arg>`’s dynamically-scoped attribute: `<arg2>`"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::= 
"symbol `<arg>` conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg, arg2, arg3) ::= 
"cannot write to read only attribute: `$<arg><if(arg2)>.<arg2><endif>`"
LABEL_CONFLICTS_WITH_RULE(arg) ::= 
"label `<arg>` conflicts with rule with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::= 
"label `<arg>` conflicts with token with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg, arg2) ::= 
"label `<arg>` conflicts with rule `<arg2>`’s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= 
"label `<arg>` conflicts with rule `<arg2>`’s return value or parameter with same name"
ATTRIBUTE_CONFLICTS_WITH_RULE(arg, arg2) ::= 
"rule `<arg2>`’s dynamically-scoped attribute `<arg>` conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= 
"rule `<arg2>`’s dynamically-scoped attribute `<arg>` conflicts with `<arg2>`’s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg, arg2) ::= 
"label `<arg>` type mismatch with previous definition: `<arg2>`"
ARG_RETVAL_CONFLICT(arg, arg2) ::= 
"rule `<arg2>`’s argument `<arg>` conflicts a return value with same name"
NONUNIQUE_REF(arg) ::= 
"<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::= 
"illegal forward reference: `<arg>`"
MISSING_RULE_ARGS(arg) ::= 
"missing parameter(s) on rule reference: `<arg>`"
RULE_HAS_NO_ARGS(arg) ::= 
"rule `<arg>` has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::= 
"token reference `<arg>` may not have parameters"
/
NONCHAR_RANGE() ::= 
"range operator can only be used in the lexer"
*/
ILLEGAL_OPTION(arg) ::= 
"illegal option `<arg>`"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::=
"rule '+=' list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::= 
"reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::= 
"reference to rewrite element <arg> without reference on left of ->"
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::= 
"reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::= 
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= <<
<if(arg)>
set complement ~<arg> is empty
<else>
set complement is empty
<endif>
>>
UNKNOWN_DYNAMIC_SCOPE(arg) ::= 
"unknown dynamic scope: <arg>"
UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg, arg2) ::= 
"unknown dynamically-scoped attribute for scope <arg>: <arg2>"
RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::= 
"reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"
ISOLATED_RULE_ATTRIBUTE(arg) ::= 
"reference to locally-defined rule scope attribute without rule name: <arg>"
INVALID_ACTION_SCOPE(arg, arg2) ::= 
"unknown or invalid action scope for <arg2> grammar: <arg>"
ACTION_REDEFINITION(arg) ::= 
"redefinition of <arg> action"
DOUBLE_QUOTES_ILLEGAL(arg) ::= 
"string literals must use single quotes (such as \begin\): <arg>"
INVALID_TEMPLATE_ACTION(arg) ::= 
"invalid StringTemplate % shorthand syntax: '<arg>"
MISSING_ATTRIBUTE_NAME() ::= 
"missing attribute name on $ reference"
ARG_INIT_VALUES_ILLEGAL(arg) ::= 
"rule parameters may not have init values: <arg>"
REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::= 
"<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"
AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::= 
"AST operator with non-AST output option: <arg>"
NO_RULES() ::= "grammar file <arg> has no rules"
MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::= 
"tree grammar <arg> has no ASTLabelType option"
REWRITE_FOR_MULTI_ELEMENT_ALT[arg] ::= 
"with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be correct"
RULE_INVALID_SET(arg) ::=
"Cannot complement rule <arg>; not a simple set or element"

HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::= "alts with rewrites can't use heterogeneous types left of ->"

NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::= "reference to undefined grammar in rule reference: <arg>.<arg2>"

NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::= "rule <arg2> is not defined in grammar <arg>"

TOKEN_ALIAS_CONFLICT(arg,arg2) ::= "cannot alias <arg>; string already assigned to <arg2>"

TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::= "cannot alias <arg>; token name already assigned to <arg2>"

TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::= "tokenVocab option ignored in imported grammar <arg>"

INVALID_IMPORT(arg,arg2) ::= 
"<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar <arg2.name>"

IMPORTED_TOKENS_RULE_EMPTY(arg,arg2) ::= 
"no lexer rules contributed to <arg> from imported grammar <arg2>"

IMPORT_NAME_CLASH(arg,arg2) ::= 
"combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate <arg2.recognizerName>; import ignored"

AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::= 
"rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"

WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"

CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar filter mode"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::= 
<<
<if(paths)>
Decision can match input such as ",<input>" using multiple alternatives:
<paths:{  alt <it.alt> via NFA path <it.states; separator="","><\n> }>
<else>
Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator="","></endif>

<if(disabled)><\n>As a result, alternative(s) <disabled; separator="","> were disabled for that input</endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions</endif>
>>

DANGLING_STATE(danglingAlts,input) ::= <<
the decision cannot distinguish between alternative(s) <danglingAlts; separator="","> for input such as ",<input>"
>>

UNREACHABLE_ALTS(alts) ::= <<
The following alternatives can never be matched: <alts; separator="",">
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)><
> Semantic predicates were present but were hidden by actions.<endif>
>>

DUPLICATE_SET_ENTRY(arg) ::= 
"duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= 
ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1.
Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.

RECURSION_OVERFLOW(alt, input, targetRules, callSiteStates) ::= 
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>}; separator="","}; separator=" and ">

LEFT_RECURSION(targetRules, alt, callSiteStates) ::= 
Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule>}; separator="","}; separator=" and ">

UNREACHABLE_TOKENS(tokens) ::= 
The following token definitions can never be matched because prior tokens match the same input: <tokens; separator="",">

TOKEN_NONDETERMINISM(input, conflictingTokens, paths, disabled, hasPredicateBlockedByAction) ::= 
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives: <paths:{ alt <it.alt> via NFA path <it.states; separator=""}; separator="",">\n</it.}
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator="",">\n</conflictingTokens>
<endif>
<if(disabled)><\n> As a result, token(s) <disabled; separator="","> were disabled for that input.<endif><if(hasPredicateBlockedByAction)><\n> Semantic predicates were present but were hidden by actions.<endif>

LEFT_RECURSION_CYCLES(listOfCycles) ::= 
The following sets of rules are mutually left-recursive <listOfCycles:{c| [<c:{r|<r.name>}; separator="","}];

Open Source Used In imicampaign 6.2.0 3031
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)><endif>
    @@end>

    <docComment>
    <recognizer>
    >>
    
    lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
        filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<
    package <name>;

    use Carp;
    use English qw( -no_match_vars ) ;
    use Readonly;
    use Switch;

    use ANTLR::Runtime::BaseRecognizer;
    use ANTLR::Runtime::DFA;
    use ANTLR::Runtime::NoViableAltException;

    use Moose;

    extends 'ANTLR::Runtime::Lexer';

    Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
    sub HIDDEN [ $HIDDEN ]

    use constant {
        <tokens: [ <it.name> => <it.type>, ], separator="\n">;
    };

    Open Source Used In imicampaign 6.2.0 3033
sub BUILD {
  my ($self, $arg_ref) = @_;

  $self->init_dfas();
}

sub get_grammar_file_name {
  return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>>}>

<cyclicDFAs:{dfa | has `dfa<dfa.decisionNumber>`;} separator="\n">

sub init_dfas {
  my ($self) = @_;

  <cyclicDFAs:{dfa | $self->dfa<dfa.decisionNumber>({name>::DFA<dfa.decisionNumber>-new({ recognizer => $self }));} separator="\n">
    return;
  }

  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

  no Moose;
  __PACKAGE__->meta->make_immutable();
  1;

  >>

  perlTypeInitMap ::= [
    "$"::"undef",
    "@"::"()",
    "%"::"()",
    default:"undef"
  ]

  /** A override of Lexer.nextToken() that backtracks over mTokens() looking
for matches. No error can be generated upon error; just rewind, consume
a token and then try again. backtracking needs to be set as well.
Make rule memoization happen only at levels above 1 as we start mTokens
at backtracking==1.
*/
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
        channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
        text = null;
        try {
            int m = input.mark();
            backtracking = 1; <! means we won't throw slow exception !>
            failed = false;
            mTokens();
            backtracking = 0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            } else {
                emit();
                return token;
            }
        } catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
    {
    if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if (backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="Object", labelType, members) ::= <<
package <name>;

use English qw(-no_match_vars);
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

use Moose;

extends '<@superClassName><superClass><@end>';

Readonly my $token_names => [
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", "
];

use constant {
    <tokens:{<it.name> => <it.type>, }; separator="\n"}
};

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}

<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, Sarg_ref) = @_;

    <if(backtracking)>
        $self->state->rule_memo({});
    <endif>

    ...
}
sub get_token_names {
    return $token_names;
}

sub get_grammar_file_name {
    return "<fileName>";
}

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>>}>

<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>::new($self);}; separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;
__END__

*** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
    superClass="ANTLR::Runtime::TreeParser", labelType="ANTLR::Runtime::Token",
    members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>

#if (trace)
    $self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    eval {
        <block>
    };
    $self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    if ($EVAL_ERROR) {
        croak $EVAL_ERROR;
    }
#else
    <block>
#endif

# $ANTLR end <ruleName>
>>
synpred(name) ::= <<
public final boolean <name>() {
    backtracking++;
    #@start()#
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !failed;
    input.rewind(start);
    #@stop()#
    backtracking--;
    failed=false;
    return success;
} \n
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()>; }<endif>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if ($self->state->failed) {
    return <ruleReturnValue()>
}<endif>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) {failed=true; return <ruleReturnValue()>};<endif>

/** How to generate code for a rule. This includes any return type *
*  data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
    my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_;
    <if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    @preamble()
    eval {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
    };<if(exceptions)>
        <exceptions:{e|<catch(decl=e.decl.action=e.action)<un>}>
    <else>
        <if(!emptyRule)
            <if(actions.(actionScope).rulecatch)
                <actions.(actionScope).rulecatch>
            <else>

### Open Source Used in Imicampaign 6.2.0  3039
my $exception = $EVAL_ERROR;
if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
    $self->report_error($exception);
    $self->recover($self->input, $exception);
    $exception = undef;
}<\n
<endif>
<endif>
<endif>

<if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
if ($exception) {
    croak $exception;
    #$exception->rethrow();
}
@endamble() 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: {_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope: {_name_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<_ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels>
:{my $<it.label.text> = undef;}; separator="\n">
<_ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
:{List list_<it.label.text>=null;}; separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<_ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels>
:{<labelType> <it.label.text>=null;}; separator="\n">
<_ruleDescriptor.charLabels:{my $<it.label.text>;}; separator="\n">
<_ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleListLabels>
:{List list_<it.label.text>=null;}; separator="\n">
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));\n>
<endif>
<endif>
>>
memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
  if ( backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
  <endif>
  <endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
    # <ruleDescriptor.parameterScope:parameterScope(scope=it)>
    my ($self) = @_; 
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
    <endif>
    <ruleDeclarations()>
    eval {
        <if(nakedBlock)>
            <ruleMemoization(name=ruleName)>
            <lexerRuleLabelDefs()>
            <ruleDescriptor.actions.init>
            <block>
        <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;
    }
    # $ANTLR end <ruleName>
>>
/** How to generate code for the implicitly-defined lexer grammar rule */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
    my ($self) = @_;
    <block>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    my $alt<decisionNumber> = <maxAlt>;
    <decls>
    <$predecision()>
    <decision>
    <$postdecision()>
    <$prebranch()>
    switch ($alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
    <$postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    my $alt<decisionNumber> = <maxAlt>;
    <decls>
    <$predecision()>
    <decision>
    <$postdecision()>
    switch ($alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
    >>

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

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  my $cnt<decisionNumber> = 0;
  <decls>
  <@preloop()>
  LOOP<decisionNumber>:
  while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
      <alts:altSwitchCase()>
      else {
        if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
        <ruleBacktrackFailure()>
        my $eee =
          ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
        <@earlyExitException()>
        croak $eee;
      }
    }
    ++$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) {

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> {
    <$@prealt()>
    <$i>
  }<
>

/** 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) ::= ""

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/** Dump the elements one per line */
element() ::= <<
<prematch()>
<it.el>
</it.el>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>
$<label> = $self->match($self->input, <token>, $FOLLOW_<token>_in_<ruleName> <elementIndex>);
</if(label)>
<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> = $self->input->LA(1);
</if(label)>
$self->match(<char>); <checkRuleBacktrackFailure()>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);
</if(label)>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>

/** For now, sets are interval tests and must be tested inline */
macthSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<label>= $self->input->LA(1);

---
<else>
  <label>=(<labelType>)input.LT(1);<
><endif>
  <endif>
  if ( <s> ) {
    $self->input->consume();
    <postmatchCode>
    <if(!LEXER>)
      $self->state->error_recovery(0);
    <endif>
    <if(backtracking)>failed=false;<endif>

  }
  else {
    <ruleBacktrackFailure()>
    my $mse =
        ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
    <@mismatchedSetException()>
    <if(LEXER)>
      $self->recover($mse);
      $mse->throw();
    </if>
    <else>
      $mse->throw();
      <! use following code to make it recover inline; remove throw mse;
      $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    </if>
    <
  }

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);
  </if>
  <else>
    $self->match(<string>); <checkRuleBacktrackFailure()><
  
ظنلا يتحوري الاسم أو الرمز أو الخصائص المذكورة في السطر الأخير من المحتوى. الرجوع المكتوب في السطر الأخير من المحتوى.
/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
;if(label)
$<label> = $self-><rule.name>(<args; separator=", ");
;else
$self-><rule.name>(<args; separator=", ");
;if(label)
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>;
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>;
>>

/** A lexer rule reference.
 * The 'rule' argument was the target rule name, but now
is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/

lexerRuleRef(rule, label, args, elementIndex, scope)::= <<
  <if(label)>
  int <label>Start<elementIndex> = getCharIndex();
  $self->m_<rule>({args; separator="", "}); <checkRuleBacktrackFailure();
  <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
  <label>Start<elementIndex>, getCharIndex(-1); 
  <else>
  $self->m_<rule.name>({args; separator="", "}); <checkRuleBacktrackFailure();
  <endif>
  >>

/** i+=INT in lexer */

lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope)::= <<
  <lexerRuleRef(...)>
  <listLabel(elem=label,...)>
  >>

/** EOF in the lexer */

lexerMatchEOF(label, elementIndex)::= <<
  <if(label)>
  int <label>Start<elementIndex> = getCharIndex();
  match(EOF); <checkRuleBacktrackFailure();
  <labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
  <label>Start<elementIndex>, getCharIndex(-1);
  <else>
  match(EOF); <checkRuleBacktrackFailure();
  <endif>
  >>

/** match ^(root children) in tree parser */

tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel)::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)> 
  if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure();
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure();
  }
  <else>
  match(input, Token.DOWN, null); <checkRuleBacktrackFailure();
  <children:element()>
  match(input, Token.UP, null); <checkRuleBacktrackFailure();
  <endif>
/** Every predicate is used as a validating predicate (even when it is
   also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
  }
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);
  <edges; separator="\n">  
  else {
    <if(eotPredictsAlt)>
      $alt<decisionNumber> = <eotPredictsAlt>;
    <else>
      <ruleBacktrackFailure()>
      my $nvae = ANTLR::Runtime::NoViableAltException->new(
        grammar_decision_description => "<description>",
        decision_number => <decisionNumber>,
        state_number => <stateNumber>,
        input => $self->input,
      );<\n>
      @noViableAltException()  
      croak $nvae;<\n>
    <endif>
  }
>>

/** Same as a normal DFA state except that we don't examine lookahead
   for the bypass alternative. It delays error detection but this
   is faster, smaller, and more what people expect. For (X)? people
   expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);
  <edges; separator="\n">  
>>

/** A DFA state that is actually the loopback decision of a closure
   loop. If end-of-token (EOT) predicts any of the targets then it
   should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
><edges; separator="nels"><<
;if(eotPredictsAlt)
if(!edges)
$alt<decisionNumber> = <eotPredictsAlt>; </ if no edges, don't gen ELSE !>
#else
else {
$alt<decisionNumber> = <eotPredictsAlt>;
}<endif>
<endif>
>">
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$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)
<targetState>
</endif>
>">
// 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>;
#else
<ruleBacktrackFailure>()
my $nvaes =
ANTLR::Runtime::NoViableAltException->new({
grammar_decision_description => "<description>",
decision_number => <decisionNumber>,
state_number => <stateNumber>,
})
export $nvaes;

$alt<decisionNumber> = <eotPredictsAlt>;

</endif>
</if(eotPredictsAlt)
}<endif>

<endif>
>"
input => $self->input,
 });

<@noViableAltException()>
croak $nvae;
<endif>

}@noViableAltException()
croak $nvae;
@endif

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n">;
}<\n>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n">;
  <$if(eotPredictsAlt)>
  else { $alt<decisionNumber> = <eotPredictsAlt> }$endif
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case [ <labels: {<it> }; separator=", ">] { <targetState> }
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>-predict($self->input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can’t use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we’re stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([...]}
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>";
}


```perl
<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
    my ($self, $param_ref) = unpack_params(@_, {spec => [
        name => 's',
        type => SCALAR,
    ],
    name => 'input',
    isa => 'ANTLR::Runtime::IntStream',
    ]
    });
    my $s = $param_ref->{s};
    my $input = $param_ref->{input};

    switch ($s) {
    <dfa.specialStateSTs:{state | case <i0> \{ <! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    }

    <if(backtracking)>
    if ($self->state->backtracking > 0) {
        $self->state->failed = 1;
        return -1;
    }<\n>

    my $nvae =
        ANTLR::Runtime::NoViableAltException->new(
            grammar_decision_description => $self->get_description(),
            decision_number => <dfa.decisionNumber>,
            state_number => $s,
            input => $input,
        );<\n>
    $self->error($nvae);
    $nvae->throw();
    }<\n>

@endif>
```

Open Source Used In imicampaign 6.2.0 3054
/** 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);>
<my $index<decisionNumber>_<stateNumber> = $input->index();>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
<input->rewind();>
<endif>
s = -1;
<edges; separator="\n">
<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>;}>
>>

eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// D FA 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) ::= <<
(SLA<decisionNumber>_<stateNumber> ge <lower> && SLA<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();
  <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.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
>>

/** Generate the Java type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

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

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n
>>

/** Define a return struct for a rule if the code needs to access its
*  start/stop tokens, tree stuff, attributes, ... Leave a hole for
*  subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{
  package <returnType>();
  use ANTLR::Runtime::Class;

  extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

  <scope.attributes:{public <it.decl>;}; separator="\n">  
  @$ruleReturnMembers()>
  </scope.attributes>
}
<endif>
>>

parameterScope(scope) ::= <<
parameterAttributeRef(attr) ::= "$<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "$<attr.name> =<expr>;"
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 $RULE ref ok in lexer as it's a Token */
lexerRuleLabelRef(label) ::= "$<label>"
lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "<<
    <if(TREE_PARSER)>
    input.getTokenStream().toString(
        input.getTreeAdaptor().getTokenStartIndex(retval.start),
        input.getTreeAdaptor().getTokenStopIndex(retval.start))
    <else>
    input.toString(retval.start,input.LT(-1))
    <endif>
">" 

rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$._type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$._channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action */
execAction(action) ::= "if(backtracking)"
    "<if(actions.(actionScope).synpredgate)"
    if ( <actions.(actionScope).synpredgate> ) {
        "<action>
    } 
    "<else>
    if ( backtracking==0 ) {
        "<action>
"
}
<endif>
<else>
<action>
<endif>
>>
// M I S C (properties, etc...)
bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ]
});<\n>
>>
codeFileExtension() ::= ".pm"
true() ::= "1"
false() ::= "0"
Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Perl5/Perl5.stg
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/*
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/
group ASTDbg:

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public void setTreeAdaptor(TreeAdaptor adaptor) {
    <if(grammar.grammarIsRoot)>
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
    <else>
    this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
    </endif>
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
} \n>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
    new DebugEventSocketProxy(this.port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
try {
    proxy.handshake();
} catch (IOException ioe) {
    reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForProfilingRootGrammar.finally() ::=<<
TreeAdaptor adap = new CommonTreeAdaptor();
>>
setTreeAdaptor(adap);

@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);

@ctorForPredefinedListener.finally() ::=<<
 <if(grammar.grammarIsRoot) <! don't create new adaptor for delegates !>
 TreeAdaptor adap = new CommonTreeAdaptor();
 setTreeAdaptor(adap);
 <endif>
>>

@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Java/ASTDbg.stg
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*/
/** Template subgroup to add template rewrite output
*  If debugging, then you'll also get STdbg.stg loaded.
*/
group ST;

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate _st;
public StringTemplate Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
    get { return templateLib; }
    set { templateLib = value; }
}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...>)
<listLabel(elem=label+.getTemplate()..., ...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
} <else>

Open Source Used In imicampaign 6.2.0  3064
replaceTextInLine() ::= <<
@if(TREE_PARSER)
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.Template);
#else
((TokenRewriteStream)input).Replace(
retval.Start.TokenIndex,
input.LT(-1).TokenIndex,
retval.Template);
@endif
>>

rewriteTemplateAlt() ::= <<
// <it.description>
@if(it.pred)
if (<it.pred>)
{
retval.Template = <it.alt>;
}
#else
{
retval.Template = <it.alt>;
}
@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(){a | .put("<a.name>", <a.value>)})
@endif>)
>>

Open Source Used In imicampaign 6.2.0 3065
/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>, new STAttrMap(){a | .put("<a.name>", <a.value>)})
<endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>, new STAttrMap(){args:{a | .put("<a.name>", <a.value>)})
<endif>)
>>

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

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
({st}).SetAttribute("<attrName>",<expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/antlr/codegen/templates/CSharp3/ST.stg
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*/
group AST;

/** Add an adaptor property that knows how to build trees */
@endFile.members() ::= <<
/* @File.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @File.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
*  tree parsers and producers require.
*/
@genericParser.apifuncs() ::= <<
@if(PARSER)
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);<\n>
@endf
ctx->vectors = antlr3VectorFactoryNew(0);
>>

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
@if(PARSER)
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
@endf
>>

@returnScope.ruleReturnMembers() ::= <<
<super.ASTLabelType()>tree;

Open Source Used in Imitcampaign 6.2.0 3067
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<AstLabelType> root_0;
>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that contains the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/
ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree   = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree   = NULL;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{stream_<it>   = NULL;
#define CREATE_stream_<it>  if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRule<rewriteElementType>StreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token<it>"); } }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{stream_<it>   = NULL;
#define CREATE_stream_<it>  if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRuleSubtreeStreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"rule <it>"); } }; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree  = NULL;
<<
/* */
/** a rule label including default value */
ruleLabelInitVal(label) ::= <<
  <super.ruleLabelInitVal(...)>
  <label.label.text>.tree = NULL;
>>

/** When doing auto AST construction, we must define some variables; */
* These should be turned off if doing rewrites. This must be a "mode" *
* as a rule could have both rewrite and AST within the same alternative *
* block. */
@alt.declarations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  <endif>
  <endif>
>>

@alt.initializations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  <if(!rewriteMode)>
  root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
  </if>
  </if>
  </if>
>>

// T r a c k i n g  R u l e  E l e m e n t s
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
  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 */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(....)
<listLabelTrack(....)

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>
; stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)
<listLabelAST(....)

// RULE REF AST

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(....)
<listLabel(elem=label,....)

---
/* How to accumulate lists when we are doing rewrite tracking... */

listLabelTrack(label) ::= <<
/* listLabelTrack(label) */
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);
>>

/* How to accumulate lists of rule outputs (only allowed with AST option but if the user is going to walk the tree, they will want all their custom elements from rule returns.
* Normally, we use inline structures (which the compiler lays down code to copy from heap allocations. However, here we want to accumulate copies of the returned structures because we are adding them to a list. This only makes sense if the grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to do a tree re-write, then the user may wish to iterate the structures returned by the rule in action code and will expect the user defined returns[] elements to be available when they do this.
* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide a function that can free the allocated space. We cannot know how to free user allocated elements and presume that the user will know to do this using their own factories for the structures they allocate.
* listLabelAST(label) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
{
    RETURN_TYPE_<label> * tcopy;
    tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no memory allocation checks! */
    ANTLR3_MEMCPY((void *)(tcopy), (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
    list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */
}
>>

// R e w r i t e

rewriteCode(}
/* AST REWRITE */
* elements          : <referencedElementsDeep; separator="",">
* token labels      : <referencedTokenLabels; separator="",">
* rule labels       : <referencedRuleLabels; separator="",">
* token list labels : <referencedTokenListLabels; separator="",">
* rule list labels  : <referencedRuleListLabels; separator="",">
*/

<if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) <\n
<rewriteCodeLabelsDecl()>
<rewriteCodeLabelsInit()>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<prevRuleRootRef().tree> = root_0;
<alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().tree> = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, _last),
ADAPTOR->getChildIndex(ADAPTOR, _last),
retval.tree);
<endif>
<endif>
<prevRuleRootRef().tree> = root_0; // set result root
<rewriteCodeLabelsFree()>

}<\n
rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels :
{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
rewriteCodeLabelsInit() ::= <<
<referencedTokenListLabels
: {pANTLR3_REWRITE_RULE_{<rewriteElementType>}_STREAM stream_<it>;};
separator="\n"
>
<referencedRuleListLabels
: {pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
separator="\n"
>
rewriteCodeLabelsFree() ::= <<
<referencedTokenListLabels
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>); ];
separator="\n"
>
<referencedRuleListLabels
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>); ];
separator="\n"
>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
// <fileName>:<description>
{
if ( <referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) };
    separator="|| " } )
{
  <alt>
}
<referencedElementsDeep:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);<\n>}

rewtieClosureBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
// <fileName>:<description>
{
while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) };
    separator="|| " } )
{
  <alt>
}
<referencedElements:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);<\n>}

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>
  }
  else
  {
    <a.alt>
  }
  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()>
  }
```c
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);

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

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

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

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

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

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ?
  NULL : stream_<label>-
  nextToken(stream_<label>), root_<treeLevel>));
>>

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

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>
```
** 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"

** 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(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>-nextNode(stream_<label>), root_<treeLevel>));<"n>
>>

rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(stdin, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-nextTree(stream_<label>));<"n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
<hetero>New(<tokenType><if(args)>, <args; separator="","></if>)
<else>
<if(args>)
#if <length(args)> == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator="",">))
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args; separator="",">)
#endif
<else>
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<tokenType>)
</if>
</if(args)>
<endif>
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
<hetero>New(stream_<token>-nextToken(stream_<token>)<if(args)>, <args; separator="","></if>)
<else>
<if(args>) <! must create new node from old !>
#if <length(args)> == 2
ADAPTOR->createTypeTokenText(ADAPTOR, <token>-getType(<token>, TOKTEXT(<token>, <args; separator="",">)) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>-getType(<token>, <token>)/* JIMI */)
#endif

<else>
stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
</endif>
</endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/AST.stg
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New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.

group antlr;

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

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

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

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/templates/messages/formats/antlr.stg
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group AST;

@outputFile.imports() ::= <<
  @super.imports()?
  if(!TREE_PARSER)>>
  using Antlr.Runtime.Tree;
  using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;<\n
@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;
>>

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

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
!important: Track implies no auto AST construction!
@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 */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);
@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>.Tree);
@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",....)>
>>

// Re w r i t e

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=", ">
    // wildcard labels: [<referencedWildcardLabels, referencedWildcardListLabels]; separator=", ">
    (if(backtracking>)
      if ( <actions.(actionScope).synpredgate> ) {
        (prevRuleRootRef()) = root_0;
      (rewriteCodeLabels())
      root_0 = (<ASTLabelType>)adaptor.Nil();
      (alts:rewriteAlt(); separator="else ")
      (! if tree parser and rewrite=true !)


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<if(TREE_PARSER)>
<if(rewriteMode)>
<preRuleRootRef>().Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last),
retval.Tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<preRuleRootRef>().Tree = root_0;<
<else>
<if(!rewriteMode)>
<preRuleRootRef>().Tree = root_0;
<endif>
<endif>
<if(backtracking)>
}

<endif>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);};
  separator="\n"
>
<referencedTokenListLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);};
  separator="\n"
>
<referencedWildcardLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);};
  separator="\n"
>
<referencedWildcardListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>);};
  separator="\n"
>
<referencedRuleLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null);};
  separator="\n"
>
>>
/** 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();

>>

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) ::= <<
  // <fileName>:<description>
  if ( !(<referencedElements:{el | stream_<el>.HasNext}; separator="||">) )
  { throw new RewriteEarlyExitException();
  }
  while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )

>>
** 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.e>  
>>

/** 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[...]) */
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>);<\n>
>>
rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>
rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>
rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>

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<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args: separator="", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp2/AST.stg
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.

```
@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(…)
<listLabel(elem=label,…)> 
>>

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

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

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don’t use the region stuff because I need to pass
// different chunks depending on the operator. I don’t like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s, label, hetero, elementIndex, postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={if(backtracking)if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], createNodeFromToken(…));})>
>>

matchRuleBlockSet(s, label, hetero, elementIndex, postmatchCode, treeLevel="0") ::= <<
<matchSet(…)
>>

matchSetBang(s, label, elementIndex, postmatchCode) ::= "<super.matchSet(…)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|[C)

matchSetRuleRoot(s, label, hetero, elementIndex, debug) ::= <<
;if(label)
<label> := Input.LT(1) as I<labelType>;<
<endif>

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/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>>
  <if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>>
  <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0])
as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>>
  <listLabel(elem=label+.Tree,...)>
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>>
  <listLabel(elem=label+.Tree,...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
  <super.wildcard(...)>>
  <if(backtracking)>if (State.Backtracking = 0) then begin <endif>
wildcardBang(label, elementIndex) ::= "super.wildcard(...)"

wildcardRuleRoot(label, elementIndex) ::= <<
  super.wildcard(...)>
  if (backtracking)>
if (State.Backtracking = 0) then
begin
  endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if (backtracking)>
end;
<endif>
>>

createNodeFromToken(label, hetero) ::= <<
  if (hetero)>
  T<hetero>.Create(<label>) <! new MethodNode(IDLabel) !>
  else>
  Adaptor.CreateNode(<label>) as I<ASTLabelType>
  endif>
>>

ruleCleanUp() ::= <<
  if (!TREERENDERER>
  Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
  if (!TREERENDERER>
  Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
  endif>
  if (backtracking)>
  end;
  endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Delphi/ASTParser.stg

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*/
group AST;
@genericParserHeaderFile.memVars() ::=
"/* AST parserHeaderFile.memVars */
<@super.memVars()>
<parsermemVars()>
>>
@genericParserHeaderFile.methodsdecl() ::=
"/* AST parserHeaderFile.methodsdecl */
<@super.methodsdecl()>
<parserMethodsDecl()>
>>
@genericParser.methods() ::=
"/* AST genericParser.methods */
<@super.methods()>
<parserMethods()>
>>
/* additional init code for tree support */
@genericParser.init() ::= <<
/* AST genericParser.init */
<branchof>
[self setTreeAdaptor:([ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor] retain)];
</branchof>

@genericParser.dealloc() ::= <<
/* AST genericParser.dealloc */
[self setTreeAdaptor:nil];
<branchof>
</branchof>

/* Add an adaptor property that knows how to build trees */
parsermemVars() ::= <<
/* AST parsermemVars */
id<ANTLRTreeAdaptor> treeAdaptor;
</branchof>

/** Declaration of additional tree support methods - go in interface of parserHeaderFile() */
parserMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<ANTLRTreeAdaptor>) getTreeAdaptor;
- (void) setTreeAdaptor:(id<ANTLRTreeAdaptor>)theTreeAdaptor;
</branchof>

/** 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;
    }
}
</branchof>

/** addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="ANTLRCommonTree"> *tree;
</branchof>
/** 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.synchronize() := <<
/* AST returnScope.synthesize */
@synthesize tree;
>>

/** the implementation of returnScope methods */
@returnScope.methods() := <<
/* AST returnScope.methods */
- (<ASTLabelType> *)getTree
  
  return tree;

- (void) setTree:(<ASTLabelType> *)aTree
  
  if (tree != aTree) {
    if (tree != nil) [tree release];
    if (aTree != nil) [aTree retain];
    tree = aTree;
  }

  };

- (void) dealloc
  
  [self setTree:nil];
  [super dealloc];

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() := <<
/* AST ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *root_0 = nil;\n>
>>

ruleLabelDefs() ::= << /* AST ruleLabelDefs */
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]: {<ASTLabelType> *<it.label.text>_tree = nil;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<ASTLabelType> *<it.label.text>_tree = nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites: {ANTLRRewriteRuleTokenStream *stream_<it> =
[[ANTLRRewriteRuleTokenStream newANTLRRewriteRuleTokenStream:treeAdaptor
description:@"token <it>" retain];]; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites: {ANTLRRewriteRuleSubtreeStream *stream_<it> =
[[ANTLRRewriteRuleSubtreeStream newANTLRRewriteRuleSubtreeStream:treeAdaptor
description:@"rule <it>" retain];]; separator="\n">
>>

ruleCleanUp() ::= << /* AST ruleCleanUp */
<super.ruleCleanUp()>
<ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites]: {[stream_<it>
release];}; separator="\n">
<!
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(backtracking)>if ( state.backtracking == 0 ) {\n
<endif>
[<prevRuleRootRef()> setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];]\n
[treeAdaptor setTokenBoundaries:[<prevRuleRootRef()> getTree]
From:[<prevRuleRootRef()> getStart] 
To:[<prevRuleRootRef()> getStop]];\n</if(backtracking)> ]\n
<endif>
<endif>
[root_0 release];
!
>>

rewriteCodeLabelsCleanUp() ::= << /* AST rewriteCodeLabelsCleanUp */
<referencedTokenLabels:[[stream_<it> release];]; separator="\n">
<referencedTokenListLabels:[[stream_<it> release];]; separator="\n">
<referencedRuleLabels:[[stream_<it> release];]; separator="\n">
<referencedRuleListLabels:[[stream_<it> release];]; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST>
@if(outerAlt>
@if(!rewriteMode>
root_0 = (<ASTLabelType> *)[treeAdaptor class] newEmptyTree retain];
@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>];
@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) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...) !>
<tokenRefBang(...)>
@if(backtracking>
if ( !<actions.(actionScope).synpredgate> ) <endif>
  [stream_<token> addElement:<label>];
@endif
>>

/** 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];<
  >>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRootTrack(...)>
  <listLabel(elem="["+label+" getTree"]",...)>>
// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
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()>.setTree:root_0;<
<prevRuleRootRef()>.tree = root_0;<
<rewriteCodeLabels()>
root_0 = (<ASTLabelType> *)[treeAdaptor class newEmptyTree retain];<
<alts:rewriteAlt(); separator="else ">
! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>) [treeAdaptor rulePostProcessing:root_0];
[input replaceChildren:[treeAdaptor getParent:retval.start]
 From:[treeAdaptor getChildIndex:retval.start]
 To:[treeAdaptor getChildIndex:_last]
 With:retval.tree];
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;<
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;<
<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> =
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    // <fileName>:<description>
    if ( <referencedElementsDeep:{el | [stream_<el> hasNext]}; separator=\"\"> ) { <alt>
    }
    <referencedElementsDeep:{el | [stream_<el> reset];\n}> >>

rewriteClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    // <fileName>:<description>
    while ( <referencedElements:{el | [stream_<el> hasNext]}; separator=\"\"> ) { <alt>
    }
    <referencedElements:{el | [stream_<el> reset];\n}> >>

rewritePositiveClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
// <fileName>:<description>
{
if ( !(<referencedElements:{el | [stream_<el> hasNext]; separator=" || ">) ) ) {
    @throw [NSException exceptionWithName:@"RewriteEarlyExitException" reason:nil userInfo:nil];
}
while ( <referencedElements:{el | [stream_<el> hasNext]; separator=" || "> ) {
    <alt>
}
<referencedElements:{el | [stream_<el> reset];<\n>}>>
>

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>) {
    <a.alt>
}</a
<else>
{
    <a.alt>
}</a
</a
<endif>
>>

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

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
    <ASTLabelType> *root_<treeLevel> = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];
    <root:rewriteElement()>
    <children:rewriteElement()>
    [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
}</a
>>

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

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

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
// TODO: args: <args; separator=" ">
**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 ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createRewriteNodeFromElement(...)>
old:root_<treeLevel>];
>>

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

**Gen ^(ID ...) or ^(ID[...]) */
rewriteTokenRefRoot(token,elementIndex,hetero,cache) ::= <<<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:stream_<label> nextNode]
old:root_<treeLevel>];
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<<
<!
<string>/* 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 */
<string>/* one arg */
// 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>];
>>
rewriteImaginaryTokenRefRoot(args, token, hetero, elementIndex) ::= <<
  <!-- got two arguments - means create from token with custom text -->
  // rewriteImaginaryTokenRef - 2 args
  id<ANTLRTree> <token>_tree = [[ANTLRCommonTree newANTLRCommonTreeWithTokenType:<first(args)> Text:@<first(rest(args))> ] retain];
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<token>_tree old:root_<treeLevel>];
  else/* at most one argument */
  if(first(args))
    id<ANTLRTree> <token>_tree = [[ANTLRCommonTree newANTLRCommonTreeWithToken:<first(args)> ] retain];
    root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<token>_tree old:root_<treeLevel>];
  else/* no argument at all */
    id<ANTLRTree> <token>_tree = [[ANTLRCommonTree newANTLRCommonTreeWithTokenType:<token>.type Text:@[tokenNames objectAtIndex:<token>.type] ] retain];
    root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<token>_tree old:root_<treeLevel>];
  endif/* one arg */
  endif/* two args */
  !
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ...)>
    old:root_<treeLevel>];
>
/** 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) ::= <<
  [treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel>];
>

rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:id<ANTLRTree>[stream_<rule> nextNode]
    old:root_<treeLevel>];
>

rewriteNodeAction(action) ::= <<
  [treeAdaptor addChild:<action> toTree:root_<treeLevel>];
>
rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];
>>

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

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
[treeAdaptor addChild:[ANTLR<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope *
][stream_<label> nextTree] toTree:root_<treeLevel>];
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:stream_<label> nextNode]
oId:root_<treeLevel>];
>>

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

rewriteWildcardLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
<! [treeAdaptor createTree:<if(args)>@<first(args)><else><tokenType><endif>
<if(args)>Text:@<first(rest(args))><endif>!] !>
[[treeAdaptor createTree:NSInteger]<tokenType> Text:[[ANTLRBaseRecognizer getTokenNames
objectAtIndex:(NSUInteger)<tokenType>] retain]
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>[stream_<token> nextToken]<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
[[treeAdaptor create:<token>] retain] <args; separator="",">
<else>
[stream_<token> nextNode]
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ObjC/AST.stg
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*/

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label  (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 */
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

finishedBacktracking(block) ::= <<
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
    <block>
  <else>
    <block>
  <endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  _first_0 = None
  _last = None
>>

/** 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({
  <endif>
  <root:element()>
  <if(rewriteMode)>
  <finishedBacktracking({

---

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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()>
    self.match(self.input, UP, None)
else
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
endif
</if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)
if (!rewriteMode)
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
   _first_<treeLevel> = <label><\n
})>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<label><\n
>>
/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
>>
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<label><\n
>>
/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.wildcard(...)
<if(!rewriteMode)>
<finishedBacktracking({
<label>_tree = self._adaptor.dupTree(<label>)
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
 _first_<treeLevel> = <label>
})>
<endif>
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
 _last = self.input.LT(1)
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
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>
})>
>>
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
@end
using Stack = System.Collections.Generic.Stack<object>;
using List = System.Collections.IList;
using ArrayList = System.Collections.Generic.List<object>;
@if(backtracking) using Map = System.Collections.IDictionary;
using HashMap = System.Collections.Generic.Dictionary<object, object>; @endif
@end

@if(actions.(actionScope).namespace) namespace <actions.(actionScope).namespace>
{
@end

<docComment>
<recognizer>
@if(actions.(actionScope).namespace) }
@end

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken", filterMode, superClass={ @if(actions.(actionScope).superClass) <actions.(actionScope).superClass> @else Antlr.Runtime.Lexer @endif}) ::= <<
public partial class <grammar.recognizerName> : @superClassName><superClass>@end
{
  <tokens:{public const int <it.name>=<it.type>;}; separator="\n">
  <scopes:{<if(it.isDynamicGlobalScope)>globalAttributeScope(scope=it)<endif> }
  <actions.lexer.members>

  // delegates
  <grammar.delegates:
    {glpublic <g.recognizerName> <g:delegateName()>;}; separator="\n">
  // delegators
  <grammar.delegators:
    {gpublic <g.recognizerName> <g:delegateName()>;}; separator="\n">
  <grammar.directDelegates:
    {gglpublic <g.recognizerName> <g:delegateName()>;}; separator="\n">
  <grammar.delegators:
    {gthis. <g:delegateName()> = <g:delegateName()>;}; separator="\n">

  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];
      </endif>
    </if>
  }

  public override string GrammarFileName { get { return "<fileName>"; } }

  private static readonly bool[] decisionCanBacktrack = new bool[0];
<if(grammar.hasDelegates>)
public override ICharStream CharStream
{
    get
    {
        return base.CharStream;
    }
    set
    {
        base.CharStream = value;
    }
}
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>,
this);}; separator="\n"
<grammar.delegators:
{g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>
}
<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

protected virtual void OnCreated() {}
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

<rules; separator="\n\n">
<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:
{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n"

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:
    {dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
    SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n"
}
<region cycledFA:
<dfa; 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"
}
</region>
<endregion

>
/** A override of Lexer.nextToken() that backtracks over mTokens() looking * for matches. No error can be generated upon error; just rewind, consume * a token and then try again. backtracking needs to be set as well. * Make rule memoization happen only at levels above 1 as we start mTokens * at backtracking==1. */
filteringNextToken() ::= <<
  public override IToken NextToken()
  {
    while (true)
    {
      if (input.LA(1) == CharStreamConstants.EndOfFile)
      {
        IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, input.Index, input.Index);
        eof.Line = Line;
        eof.CharPositionInLine = CharPositionInLine;
        return eof;
      }
      state.token = null;
      state.channel = TokenChannels.Default;
      state.tokenStartCharIndex = input.Index;
      state.tokenStartCharPositionInLine = input.CharPositionInLine;
      state.tokenStartLine = input.Line;
      state.text = null;
      try
      {
        int m = input.Mark();
        state.backtracking=1;<! means we won't throw slow exception !>
        state.failed=false;
        mTokens();
        state.backtracking=0;
        <! mTokens backtracks with synpred at backtracking==2 and we set the synpredgate to allow actions at level 1. !>
        if (state.failed)
        {
          input.Rewind(m);
          input.Consume();<! advance one char and try again !>
        }
        else
        {
          Emit();
          return state.token;
        }
      }
      catch (RecognitionException re)
      {
      }
    }
  }
*/
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);

return false;
}
#endif

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:
        {glpublic <g.recognizerName> <g:delegateName()>;}; separator="\n"> // delegators
        <grammar.delegators:
        {glpublic <g.recognizerName> <g:delegateName()>;}; separator="\n">
private static readonly bool[] decisionCanBacktrack = new bool[]{false, // invalid decision 
    
    private static readonly bool[] decisionCanBacktrack = new bool[]{false, // invalid decision 
    
    #if ANTLR_DEBUG 
    private static readonly bool[] decisionCanBacktrack = new bool[] {false, // invalid decision 
    
    #else 
    private static readonly bool[] decisionCanBacktrack = new bool[] {false, // invalid decision 
    
    #endif 
    
    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:delegateName>()}> ) : base(input, state) 
    
    public override string[] TokenNames { get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; } } 
    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) 

    <rules; separator="\n\n">
<grammar.delegators:
  {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.
*/
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>
<brace>
<endif>
}

// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
bool success = false;
state.backtracking++;
<@start()>
try { DebugBeginBacktrack(state.backtracking);
int start = input.Mark();
try
{
fragment();
}
catch ( RecognitionException re )
{
System.Console.Error.WriteLine("impossible: "+re);
}
success = !state.failed;
input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
<@stop()>
state.backtracking--;
state.failed=false;
return success;
}
#endregion Synpreds
<endif>
>>
ruleMemoization(name) ::= <<
  if(memoize)
  if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
  <endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  if(backtracking) if (state.failed) <returnFromRule()> <endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  if(backtracking) if (state.backtracking>0) { state.failed=true; <returnFromRule()> } <endif>
>>

/** How to generate code for a rule. This includes any return type 
* data aggregates required for multiple return values. 
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(scope=ruleDescriptor.returnScope)>
  protected virtual void Enter_<_ruleName>() {}
  protected virtual void Leave_<_ruleName>() {}

  // $ANTLR start _"<ruleName>"
  // <fileName>:<description>
  [GrammarRule(""<ruleName>"" )]
  <csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> <returnType()>
  <ruleName>(_<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  {
    <if(trace)>
      Enter_<_ruleName>();
      EnterRule(""<ruleName>"", <ruleDescriptor.index>);
      TraceIn(""<ruleName>"", <ruleDescriptor.index>);
      <endif>
      <ruleScopeSetUp()>
      <ruleDeclarations()>
      <ruleLabelDefs()>
      <ruleDescriptor.actions.init>
      try { DebugEnterRule(GrammarFileName, ""<ruleName>"" );
        DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
        <@preamble()>
        try {
          <ruleMemoization(name=ruleName)>
        <block>
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
}
</if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action}><\n}>}
</else>
</if(!emptyRule)>
<actions.(actionScope).rulecatch>
<actions.(actionScope).rulecatch>
</else>
catch (RecognitionException re) {
  ReportError(re);
  Recover(input,re);
  <setErrorReturnValue()>
}<\n>
<endif>
<endif>
<endif>
finally{
  <if(trace)>
  TraceOut("<ruleName>", <ruleDescriptor.index>);
  LeaveRule("<ruleName>", <ruleDescriptor.index>);
  Leave_<ruleName>();
  <endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
}
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);}
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
// $ANTLR end "<ruleName>"
>>
catch(decl,action) ::= <<
catch (<e.decl>) {
  <e.action>
} >>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType() retval = new <returnType>();

Open Source Used In imicampaign 6.2.0  3125
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"
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{<labelType> <it.label.text>=null;}; separator="n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{List list_<it.label.text>=null;}; separator="n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="n"
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="n"
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, 
ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleLabels]
 :{<labelType> <it.label.text>=null;}; separator="n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="n"
>
<ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels]
 :{List list_<it.label.text>=null;}; separator="n"
>
>
>>
returnFromRule() ::= <<
return<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
</else>
retval
</endif>
</endif>
</endif>
;
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);<n>
</endif>
</endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
</endif>
</endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for * fragment rules. */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
protected virtual void Enter_<ruleName>() {} 
protected virtual void Leave_<ruleName>() {} 

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")] 
<cscapeVisibilityMap.(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>
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 {
    <if(trace)>
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    Leave_<ruleName>();
    <endif>
    <ruleScopeCleanUp()>
    <memoize()>
    }
    // $ANTLR end "<ruleName>"
    }}

    // S U B R U L E S

    /** 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><
    }
    }}
    // $ANTLR end "<ruleName>"
    >>

    // S U B R U L E S
/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    @}predecision()
    try { DebugEnterSubRule(<decisionNumber>);
    try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); } }
    @}postdecision()
    @}prebranch()
    switch (alt<decisionNumber>)
    {
    @}alts:altSwitchCase()
    }
    } finally { DebugExitSubRule(<decisionNumber>); }
    @}postbranch()
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    @}predecision()
    try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); }
    @}postdecision()
    switch (alt<decisionNumber>)
    {
    @}alts:altSwitchCase()
    }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    @}prealt()
    DebugEnterAlt(1);
    <alts>
    @}postalt()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    @}prealt()
    DebugEnterAlt(1);
    <alts>
    @}postalt()
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** 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 */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
int cnt<decisionNumber>=0;
<decls>
@$prealt()@
DebugEnterAlt(1);
<alts>
@$postalts()@
>>

/** A (..)+ block with 1 or more alternatives */
closureBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
@@preloop() try { DebugEnterSubRule(<decisionNumber>); while (true) {
  int alt<decisionNumber>=<maxAlt>;
  @@predecision() try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
  <decision>
} finally { DebugExitDecision(<decisionNumber>); }<@postdecision() switch ( alt<decisionNumber> )
{<alts:altSwitchCase() default:
goto loop<decisionNumber>;
}
}

loop<decisionNumber>:;

} finally { DebugExitSubRule(<decisionNumber>); }<@postloop()>>
closureBlockSingleAlt := closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation *
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative *
* number. A DFA predicts the alternative and then a simple switch *
* does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i>:<@prealt()>
DebugEnterAlt(<i>);
<i>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) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
DebugLocation(<it.line>, <it.pos>);
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
@if(label)><label>=(<labelType>)Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
@if(label)>
<label> = input.LA(1);<\n>
>>
** 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);
<![if(LEXER)]>
Recover(mse);
throw mse;
<![else]>
throw mse;
<![endif]>
throw mse;
<![endif]>
<![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>
  <endif>
>>

 wildcard(label,elementIndex) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<\n>
  <endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)> 
>>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,

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CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;

if(scope)<scope:delegateName()>.m<rule.name>({args; separator="", "});
<checkRuleBacktrackFailure()>
</scope>

/** 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> = 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()>
</if>
>>

/** 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()>
</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) ::= <<
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);
DebugRecognitionException(nvae);
<@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.
  */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_stateNumber = input.LA(<k>);
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
  * loop. If end-of-token (EOT) predicts any of the targets then it
  * should act like a default clause (i.e., no error can be generated).
  * This is used only in the lexer so that for ('a')* on the end of a rule
  * anything other than 'a' predicts exiting. 
  */

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/**
daFAloopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
  <edges; separator="\n">\n  <if(eotPredictsAlt)>
  <if(!edges)>
  alt<decisionNumber>==eotPredictsAlt; <!-- if no edges, don't gen ELSE -->
  <else>
  else
  {<\n>
  alt<decisionNumber>==eotPredictsAlt;
  }<\n>
  </endif>
  </endif>
]]=

/** An accept state indicates a unique alternative has been predicted */
daFAacceptState(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)> && (<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) ::= <<
  switch (input.LA(<k>))
  {
  <edges; separator="\n">\n  default:
  <if(eotPredictsAlt)>
  alt<decisionNumber>==eotPredictsAlt;
  break;<\n>
  <else>
  {<\n>
  <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;<\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) ::= <<
try
{
altn<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) ::= <<
	p[ DFA<dfa.decisionNumber> : DFA

	private const string DFA<dfa.decisionNumber>_eotS =
	"<dfa.javaCompressedEOT; wrap="\"+
		n\t"">";
	private const string DFA<dfa.decisionNumber>_eofS =
	"<dfa.javaCompressedEOF; wrap="\"+
		n\t"">";
	private const string DFA<dfa.decisionNumber>_minS =
	"<dfa.javaCompressedMin; wrap="\"+
		n\t"">";
	private const string DFA<dfa.decisionNumber>_maxS =
	"<dfa.javaCompressedMax; wrap="\"+
		n\t"">";
	private const string DFA<dfa.decisionNumber>_acceptS =
	"<dfa.javaCompressedAccept; wrap="\"+
		n\t"">";
	private const string DFA<dfa.decisionNumber>_specialS =
	"<dfa.javaCompressedSpecial; wrap="\"+
		n\t"">"}>
";
	p[ DFA<dfa.decisionNumber>_transitionS =
	{<dfa.javaCompressedTransition:{s|"<s; wrap="\"+
		n\t"">";} separator=",";
	};
	p[ DFA<dfa.decisionNumber>_eot =
	DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
	p[ DFA<dfa.decisionNumber>_eof =
	DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
	p[ DFA<dfa.decisionNumber>_min =
	DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
	p[ DFA<dfa.decisionNumber>_max =
	DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
	p[ DFA<dfa.decisionNumber>_accept =
	DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
	p[ DFA<dfa.decisionNumber>_special =
	DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
	p[ DFA<dfa.decisionNumber>_transition =

static DFA<dfa.decisionNumber>()


Open Source Used In imicampaign 6.2.0 3140
int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for (int i = 0; i < numStates; i++)
{
    DFA<dfa.decisionNumber>_transition[i] =
    DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
    SpecialStateTransitionHandler specialStateTransition<endif>)
<if(dfa.specialStateSTs)>
    : base(specialStateTransition)<
    <endif>
    {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }

public override string 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);<\n>
<if(semPredState)></!
int index<decisionNumber>_<stateNumber> = input.Index;
input.Rewind();<\n>
</if>
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>
>>

Open Source Used In imicampaign 6.2.0 3142
// 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="||">"

// 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>
}

else
void <scope.name>_scopeAfter( <scope.name>_scope scope ) {}

<endif>
protected Stack\<\<scope.name\>_scope\> \<scope.name\>_stack = new Stack\<\<scope.name\>_scope\>();
<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>(
<referencedRule.grammar.recognizerName>.<referencedRule: name>_return
<else>(
<referencedRule.singleValueReturnType>
<else>(
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)>(it.label)<else>(g<it.name><endif>

Open Source Used In imicampaign 6.2.0 3144
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
public class <ruleDescriptor:returnStructName()> :
@if(TREE_PARSER)Tree<else>Parser<endif>RuleReturnScope<<labelType>\[@ruleReturnInterfaces()>
{
<scope.attributes:{public <it.decl>;}; separator="\n">,@ruleReturnMembers()
}
@endif
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator="",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(negIndex)
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
@if(index)
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
@if(negIndex)
(<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>;
  </if>
  </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)>
  (<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
  <else>
  <scope>
  </if>
 <<->

returnAttributeRef(ruleDescriptor, attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  <attr.name>
  </if>
 <<->

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> =<expr>;
  <else>
  <attr.name> =<expr>;
  </if>
 <<->

/** 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) ::= "((<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:0)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((scope) !=null?(scope).Type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((scope) !=null?(scope).Line:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((scope) !=null?(scope).CharPositionInLine:-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((scope) !=null?(scope).Channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((scope) !=null?(scope).TokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::="
"(<scope> !=null? <scope>.Text : null)"

lexerRuleLabelPropertyRef_int(scope, attr) ::= 
"(<scope> !=null? int.Parse(<scope>.Text) : 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.Start"
rulePropertyRef_stop(scope, attr) ::= "retval.Stop"
rulePropertyRef_tree(scope, attr) ::= "retval.Tree"
rulePropertyRef_text(scope, attr) ::= <<
<if (TREE_PARSER)>
input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString(retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope, attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope, attr) ::= "Text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.ST =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if (backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:>{<it>UL};separator="",">});<n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

** 1.353 aws-sdk-for-java-models 1.11.155 ******

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1.356 aws-java-sdk-for-aws-waf 1.11.508

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1.357 aws-java-sdk-for-amazon-lex-model-building 1.11.172

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1.358 aws-java-sdk-for-amazon-elastic-container-service-for-kubernetes 1.11.508

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1.368 aws-java-sdk-for-the-aws-cloudhsm

1.11.555

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1.370 dom4j-flexible-xml-framework-for-java
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History:
Date    Who    What
28oct1999 dl    Created
14dec1999 dl    jmm snapshot
19apr2000 dl    use barrierLock
12jan2001 dl    public release
17nov2001 dl    Minor tunings
20may2002 dl    BarrierLock can now be serialized.
09dec2002 dl    Fix interference checks.
*/

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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/dom/DOMAttributeNodeMap.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/NullAction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultProcessingInstruction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ElementHandler.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMComment.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/XMLTableModel.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/NodeComparator.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/IllegalAddException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBReader.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/STAXEventReader.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultDocumentType.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/XMLTableColumnDefinition.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/AttributeDecl.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Entity.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBWriter.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/BranchTreeNode.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractText.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/NonLazyDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/InternalEntityDecl.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ElementPath.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Document.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractCharacterData.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/InvalidSchemaException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Comment.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/CharacterData.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/DocumentSource.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ProcessingInstruction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMDocument.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBModifier.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMElement.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/BackedList.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/IndexedDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/DatatypeAttribute.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/ProxyDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/XPathException.java

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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldJoinIntegerIndex.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/HeaderIndex.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/ComplexFieldMapEntry.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMap.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByPosition.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByPositionEntry.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByPositionEntry.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/comparator/LiteralComparator.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/ResultSetHelper.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/CSVParserBuilder.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/CSVReaderBuilder.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvRequiredFieldEmptyException.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvDate.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvConstraintViolationException.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java
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jar/com/opencsv/bean/AbstractCsvConverter.java
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jar/com/opencsv/bean/concurrent/ProcessCsvLine.java
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jar/com/opencsv/bean/util/OrderedObject.java
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jar/com/opencsv/bean/FieldMapByNameEntry.java
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jar/com/opencsv/bean/CsvConverter.java
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jar/com/opencsv/bean/FieldMapByName.java
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jar/com/opencsv/bean/BeanFieldJoin.java
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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.
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* *
* <p>The purpose of the CSVParse is to take a single string and parse it into
* its elements based on the delimiter, quote and escape characters.</p>
* *
* <p>The CSVParse has grown organically based on user requests and does not truly match
* any current requirements (though it can be configured to match or come close). There
* is no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.</p>
* *
* @author Glen Smith
* @author Rainer Pruy
*/
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1.378 nanohttpd-core 2.3.1

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]"
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(1)

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(2)

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(3)

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1.382 jboss-marshalling-osgi-bundle

1.4.10.Final

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VendorUrl: https://kemitchell.com

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VendorUrl: https://github.com/GoalSmashers/clean-css

cli-color@0.3.3
Vendor: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

cli-table@0.3.1
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Vendor: Heather Arthur

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Vendor: Sindre Sorhus

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colors@1.0.3
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  VendorName: JP Richardson
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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: 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
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
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
regexu@1.3.0
URL: https://github.com/mathiasbynens/regexu.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/regexu
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
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/repeat-string
repeating@1.1.3
URL: https://github.com/sindresorhus/repeating.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
repeating@2.0.1
URL: https://github.com/sindresorhus/repeating.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
request-progress@2.0.1
URL: git://github.com/IndigoUnited/node-request-progress
VendorName: IndigoUnited
VendorUrl: http://indigounited.com
require-directory@2.1.1
  URL: git://github.com/troygoode/node-require-directory.git
  VendorName: Troy Goode
  VendorUrl: https://github.com/troygoode/node-require-directory/
requires-port@1.0.0
  URL: https://github.com/unshiftio/requires-port
  VendorName: Arnout Kazemier
  VendorUrl: https://github.com/unshiftio/requires-port
resolve-package-path@1.2.7
resolve@1.14.1
  URL: git://github.com/browserify/resolve.git
  VendorName: James Halliday
  VendorUrl: http://substack.net
retry@0.8.0
  URL: git://github.com/tim-kos/node-retry.git
  VendorName: Tim Koschtzki
  VendorUrl: https://github.com/tim-kos/node-retry
right-align@0.1.3
  URL: git://github.com/jonschlinkert/right-align.git
  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/right-align
rimraf@2.2.8
  URL: git://github.com/isaacs/rimraf.git
  VendorName: Isaac Z. Schlueter
  VendorUrl: http://blog.izs.me/
rsvp@3.0.21
  URL: https://github.com/tildeio/rsvp.js.git
  VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.2.1
  URL: https://github.com/tildeio/rsvp.js.git
  VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.6.2
  URL: https://github.com/tildeio/rsvp.js.git
  VendorName: Tilde, Inc. & Stefan Penner
rsvp@4.8.5
  URL: https://github.com/tildeio/rsvp.js.git
  VendorName: Tilde, Inc. & Stefan Penner
  VendorUrl: https://github.com/tildeio/rsvp.js
safe-buffer@5.1.2
  URL: git://github.com/feross/safe-buffer.git
  VendorName: Feross Aboukhadieh
  VendorUrl: https://github.com/feross/safe-buffer
safe-buffer@5.2.0
  URL: git://github.com/feross/safe-buffer.git
  VendorName: Feross Aboukhadieh
  VendorUrl: https://github.com/feross/safe-buffer
safer-buffer@2.1.2
  URL: git+https://github.com/ChALkeR/safer-buffer.git
VendorName: Nikita Skovoroda
VendorUrl: https://github.com/ChALkeR

sane@1.7.0
URL: https://github.com/amasad/sane
VendorName: amasad
VendorUrl: https://github.com/amasad/sane

sass-graph@2.2.4
URL: https://github.com/xzyfer/sass-graph.git
VendorName: xzyfer

scss-tokenizer@0.2.3
URL: https://github.com/sasstools/scss-tokenizer.git
VendorName: xzyfer
VendorUrl: https://github.com/sasstools/scss-tokenizer

select2@4.0.0
URL: git://github.com/select2/select2.git
VendorName: Kevin Brown
VendorUrl: https://select2.github.io/

send@0.17.1
URL: https://github.com/pillarjs/send.git
VendorName: TJ Holowaychuk

serve-static@1.14.1
URL: https://github.com/expressjs/serve-static.git
VendorName: Douglas Christopher Wilson

shebang-regex@1.0.0
URL: https://github.com/sindresorhus/shebang-regex.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

simple-fmt@0.1.0
URL: https://github.com/olov/simple-fmt.git
VendorName: Olov Lassus

simple-is@0.2.0
URL: https://github.com/olov/simple-is.git
VendorName: Olov Lassus

slash@1.0.0
URL: https://github.com/sindresorhus/slash.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

socket.io-client-pure@1.3.12
URL: https://github.com/Automattic/socket.io-client.git

socket.io-parser@2.2.2
URL: https://github.com/Automattic/socket.io-parser.git

source-map-url@0.3.0
URL: https://github.com/evanw/node-source-map-support
URL: https://github.com/lydell/source-map-url.git
VendorName: Simon Lydell
spawnback@1.0.0
URL: git://github.com/scottgonzalez/spawnback.git
VendorName: Scott Gonzalez
VendorUrl: https://github.com/scottgonzalez/spawnback
spdx-expression-parse@3.0.0
URL: https://github.com/jslicense/spdx-expression-parse.js.git
VendorName: Kyle E. Mitchell
VendorUrl: http://kemitchell.com
sri-toolbox@0.2.0
URL: https://github.com/neftaly/npm-sri-toolbox.git
VendorName: Neftaly Hernandez
sshpk@1.16.1
URL: git+https://github.com/joyent/node-sshpk.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/arekinath/node-sshpk#readme
stable@0.1.8
URL: https://github.com/Two-Screen/stable.git
VendorName: Angry Bytes
statuses@1.5.0
URL: https://github.com/jshhttp/statuses.git
stdout-stream@1.4.1
URL: https://github.com/mafintosh/stdout-stream.git
string_decoder@0.10.31
URL: git://github.com/rvagg/string_decoder.git
VendorUrl: https://github.com/rvagg/string_decoder
string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
string-width@1.0.2
URL: https://github.com/sindresorhus/string-width.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string-width@2.1.1
URL: https://github.com/sindresorhus/string-width.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string.prototype.endsWith@0.2.0
URL: https://github.com/mathiasbynens/String.prototype.endsWith.git
VendorName: Mathias Bynens
VendorUrl: http://mths.be/endswith
stringmap@0.2.2
URL: https://github.com/olov/stringmap.git
VendorName: Olov Lassus
stringset@0.2.1
URL: https://github.com/olov/stringset.git
VendorName: Olov Lassus
stringstream@0.0.6
URL: https://github.com/mhart/StringStream.git
VendorName: Michael Hart
VendorUrl: http://github.com/mhart
strip-ansi@0.1.1
URL: https://github.com/sindresorhus/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
strip-ansi@0.3.0
URL: https://github.com/sindresorhus/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
strip-ansi@2.0.1
URL: https://github.com/sindresorhus/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
strip-ansi@3.0.1
URL: https://github.com/chalk/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-ansi@4.0.0
URL: https://github.com/chalk/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-bom@2.0.0
URL: https://github.com/sindresorhus/strip-bom.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-indent@1.0.1
URL: https://github.com/sindresorhus/strip-indent.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
strip-json-comments@1.0.4
URL: https://github.com/sindresorhus/strip-json-comments.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: https://github.com/sindresorhus/supports-color.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
supports-color@2.0.0
URL: https://github.com/chalk/supports-color.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: https://github.com/chalk/supports-color.git
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@1.0.6
URL: https://github.com/markdown-it/uc.micro.git
uglify-to-browserify@1.0.2
URL: https://github.com/ForbesLindesay/uglify-to-browserify.git
VendorName: ForbesLindesay
ultron@1.0.2
URL: https://github.com/unshiftio/ultron
VendorName: Arnout Kazemier
VendorUrl: https://github.com/unshiftio/ultron
umask@1.1.0
URL: https://github.com/smikes/umask.git
VendorName: Sam Mikes
VendorUrl: https://github.com/smikes/umask
underscore.string@2.3.3
URL: https://github.com/epeli/underscore.string.git
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underscore.string@3.3.5
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underscore.string@1.9.1
URL: git+https://github.com/RyanZim/universalify.git
VendorName: Ryan Zimmerman
VendorUrl: https://github.com/RyanZim/universalify#readme
unpipe@1.0.0
URL: https://github.com/stream-utils/unpipe.git
VendorName: Douglas Christopher Wilson

user-home@1.1.1
URL: https://github.com/sindresorhus/user-home.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
username-sync@1.0.2
URL: git@github.com:stefanpenner/username-sync
VendorName: Stefan Penner
utf8@2.1.0
URL: https://github.com/mathiasbynens/utf8.js.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/utf8js
util-deprecate@1.0.2
URL: git://github.com/TooTallNate/util-deprecate.git
VendorName: Nathan Rajlich
VendorUrl: https://github.com/TooTallNate/util-deprecate
util-extend
URL: git://github.com/isaacs/util-extend
utf8-merge@1.0.1
URL: git://github.com/jaredhanson/utf8-merge.git
VendorName: Jared Hanson
VendorUrl: http://www.jaredhanson.net/
uuid@2.0.3
URL: https://github.com/defunctzombie/node-uuid.git
VendorName: Robert Kieffer
uuid@3.3.3
URL: https://github.com/kelektiv/node-uuid.git
vary@1.1.2
URL: https://github.com/jshttp/vary.git
VendorName: Douglas Christopher Wilson
verror@1.10.0
URL: git://github.com/davepacheco/node-verror.git
walk-sync@0.1.3
URL: https://github.com/joliss/node-walk-sync
VendorName: Jo Liss
walk-sync@0.2.7
URL: https://github.com/joliss/node-walk-sync
VendorName: Jo Liss
walk-sync@0.3.4
URL: https://github.com/joliss/node-walk-sync
VendorName: Jo Liss
wcwidth@1.0.1
URL: git+https://github.com/timoxley/wcwidth.git
VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/wcwidth#readme
websocket-extensions@0.1.3
URL: git://github.com/faye/websocket-extensions-node.git
VendorName: James Coglan
VendorUrl: http://github.com/faye/websocket-extensions-node
window-size@0.1.0
URL: https://github.com/jonschlinkert/window-size.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/window-size
window-size@0.1.4
URL: https://github.com/jonschlinkert/window-size.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/window-size
wordwrap@0.0.2
URL: git://github.com/substack/node-wordwrap.git
VendorName: James Halliday
VendorUrl: http://substack.net
wordwrap@0.0.3
URL: git://github.com/substack/node-wordwrap.git
VendorName: James Halliday
VendorUrl: http://substack.net
wrap-ansi@2.1.0
URL: https://github.com/chalk/ansi.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ws-pure@0.8.0
URL: git://github.com/patocallaghan/ws.git
VendorName: Pat O'Callaghan
xdg-basedir@2.0.0
URL: https://github.com/sindresorhus/xdg-basedir.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
xmlhttprequest-ssl@1.5.1
URL: git://github.com/mjwwit/node-XMLHttpRequest.git
VendorName: Michael de Wit
xtend@4.0.2
URL: git://github.com/Raynos/xtend.git
VendorName: Raynos
VendorUrl: https://github.com/Raynos/xtend
yam@0.0.18
URL: https://github.com/twokul/yam
VendorName: Alex Navasardyan
VendorUrl: http://twokul.io
yargs@3.10.0
URL: http://github.com/bcoe/yargs.git
VendorName: Alex Ford
VendorUrl: http://CodeTunnel.com
yargs@3.27.0
URL: http://github.com/bcoe/yargs.git
VendorName: Alex Ford
VendorUrl: http://CodeTunnel.com
sntp@1.0.9
URL: git://github.com/hueniverse/sntp
VendorName: Eran Hammer
VendorUrl: http://hueniverse.com

UNKNOWN
base64id@0.1.0
URL: https://github.com/faeldt/base64id.git
VendorName: Kristian Faeldt

colors@0.6.2
URL: http://github.com/Marak/colors.js.git
VendorName: Marak Squires
VendorUrl: https://github.com/Marak/colors.js

Unlicense
spdx-license-ids@1.2.2
URL: https://github.com/shinnn/spdx-license-ids.git
VendorName: Shinnosuke Watanabe
VendorUrl: https://github.com/shinnn

tweetnacl@0.14.5
URL: https://github.com/dchest/tweetnacl-js.git
VendorName: TweetNaCl-js contributors
VendorUrl: https://tweetnacl.js.org/

WTFPL
sorted-object@1.0.0
URL: git://github.com/domenic/sorted-object.git
VendorName: Domenic Denicola
VendorUrl: http://domenic.me/

WTFPL OR ISC
is-integer@1.0.7
URL: git@github.com:parshap/js-is-integer
VendorName: Parsha Pourkhomami

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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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LZ4 - Fast LZ compression algorithm

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uriparser - RFC 3986 URI parsing library

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

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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)
Open Source Used In imicampaign 6.2.0  3419

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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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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VendorName: Nikita Skovoroda  
VendorUrl: https://github.com/ChALkeR
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VendorUrl: https://github.com/winstonjs/triple-beam#readme
uc.micro@1.0.6  
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universalify@0.1.2
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hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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io.swagger:swagger-annotations:1.5.4
javax.inject:javax.inject: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

c.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/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js
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org.ow2.asm:asm-commons:9.0
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.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
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org.slf4j:sfl4j-api:1.7.30
org.slf4j:sfl4j-log4j12:1.7.30

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javax.servlet.jsp:jsp-api:2.1
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javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11
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junit:junit:4.13.1

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

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-------------

org.hsqldb:hsqldb:2.3.4

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org.jdom:jdom:1.1

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

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

aopalliance:aopalliance:1.0

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(1)

ExceptionConverter:
The original version of this class was published in an article by Heinz Kabutz.
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(2)
SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt:
Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in
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We ask that you reference the author as the creator and JavaWorld as the original publisher
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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)
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ability to handle a lot of 'broken' TIFFs."

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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 LIBTIFF:

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1.396 aws-java-sdk-for-aws-waf 1.11.555

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1.397 swagger-models 1.5.20

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```java
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class Info {
    private String description;
    private String version;
    private String title;
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();

    public Info version(String version) {
        this.setVersion(version);
        return this;
    }

    public Info title(String title) {
        this.setTitle(title);
        return this;
    }

    public Info description(String description) {
        this.setDescription(description);
        return this;
    }

    public Info termsOfService(String termsOfService) {
        this.setTermsOfService(termsOfService);
        return this;
    }

    public Info contact(Contact contact) {
        this.setContact(contact);
        return this;
    }
}
```
public Info license(License license) {
    this.setLicense(license);
    return this;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getVersion() {
    return version;
}

public void setVersion(String version) {
    this.version = version;
}

public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}

public String getTermsOfService() {
    return termsOfService;
}

public void setTermsOfService(String termsOfService) {
    this.termsOfService = termsOfService;
}

public Contact getContact() {
    return contact;
}

public void setContact(Contact contact) {
    this.contact = contact;
}

public License getLicense() {
    return license;
}
public void setLicense(License license) {
    this.license = license;
}

public Info mergeWith(Info info) {
    if (info != null) {
        if (this.description == null) {
            this.description = info.description;
        }
        if (this.version == null) {
            this.version = info.version;
        }
        if (this.title == null) {
            this.title = info.title;
        }
        if (this.termsOfService == null) {
            this.termsOfService = info.termsOfService;
        }
        if (this.contact == null) {
            this.contact = info.contact;
        }
        if (this.license == null) {
            this.license = info.license;
        }
        if (this.vendorExtensions == null) {
            this.vendorExtensions = info.vendorExtensions;
        }
    }
    return this;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}
@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result + ((termsOfService == null) ? 0 : termsOfService.hashCode());
    result = prime * result + ((title == null) ? 0 : title.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    result = prime * result + ((version == null) ? 0 : version.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    Info other = (Info) obj;
    if (contact == null) {
        if (other.contact != null) {
            return false;
        }
    } else if (!contact.equals(other.contact)) {
        return false;
    }
    if (description == null) {
        if (other.description != null) {
            return false;
        }
    } else if (!description.equals(other.description)) {
        return false;
    }
    if (license == null) {
        if (other.license != null) {
            return false;
        }
    } else if (!license.equals(other.license)) {
        return false;
    }
    if (termsOfService == null) {
        if (other.termsOfService != null) {
            return false;
        }
    } else if (!termsOfService.equals(other.termsOfService)) {
        return false;
    }
    return true;
}
} 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;
}
public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashSet<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;
        }
    } 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;
        }
    } 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;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    return true;
}

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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-zip/com/ctc/wstx/exc/WstxException.java
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1.422 mongo-java-driver 3.4.2

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/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
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/annotations/NotThreadSafe.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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  jar/com/mongodb/WriteConcern.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1.jar/com/mongodb/connection/DefaultConnectionFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1.jar/com/mongodb/operation/GroupOperation.java
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  jar/com/mongodb/client/model/geojson/codecs/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java
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* /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/com/mongodb/operation/CreateCollectionOperation.java
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* /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
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonDbPointer.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonInt32.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/BsonUndefinedCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/UuidCodecHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/WriteError.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ExponentiallyWeightedMovingAverage.java
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*/
/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
* 
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
* 
* <p>This method acts as bridge between array-based and collection-based
* APIs.
* 
* @return an array containing all of the elements in this deque
*/

--

Found in path(s):
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
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  jar/com/mongodb/client/model/DBCollectionFindAndModifyOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/client/model/CollationCaseFirst.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/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/DeleteOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/client/model/DBCollectionRemoveOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/client/gridfs/codecs/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/client/model/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/DBCollectionRemoveOptions.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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  jar/com/mongodb/MapReduceIterableImpl.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/com/mongodb/AggregateIterableImpl.java

1.423 azure-storage-blob 12.4.0
1.423.1 Available under license :

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1.424 jackson-dataformats-binary 2.6.7
1.424.1 Available under license:

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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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## More

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

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* /opt/cola/permits/1239450720_1639149784.45/0/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0-tar-gz/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0/README.md

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* /opt/cola/permits/1239450720_1639149784.45/0/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0-tar-gz/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0/avro/README.md

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1.425 aws-java-sdk-for-amazon-cognito-identity 1.11.508

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1.426 aws-java-sdk-for-amazon-sns 1.11.508

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1.427 aws-java-sdk-for-aws-cost-and-usage-report 1.11.508

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 *
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 *
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 * is no plans to change this as it will break existing requirements. Consider using
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 *
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 * @author Rainer Pruy
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1.442 aws-java-sdk-for-amazon-sqs 1.11.508

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1.443 aws-java-sdk-for-aws-service-catalog

1.11.257

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1.9.13

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1.446 aws-java-sdk-for-aws-migration-hub
1.11.257

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1.447 aws-java-sdk-for-amazon-sagemaker

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1.448 aws-java-sdk-for-aws-step-functions

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1.450 jackson-databind 2.6.6

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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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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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>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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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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**Full name:** Julian Anthony Fox Gosnell  
**E-Mail:** jules@coredevelopers.net  
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1.11.508

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1.11.257

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1.11.555

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1.474 core-functionality-for-the-reactor-netty-library 1.0.10

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1.476 jackson-core 2.6.7

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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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The Apache POI is pleased to announce the release of POI 3.7.

See the downloads page for binary and source distributions: http://poi.apache.org/download.html

Release Notes -- Apache POI -- Version 3.7

Apache POI is an open source Java library for working with Microsoft Office documents.
POI 3.7 is an incremental feature release based on the earlier 3.6 release.
The most notable changes since POI 3.6 are:
-------------------------------------------
**OOXML**
* support for reading aes-encrypted/write-protected ooxml files
* support Java 1.5 in auto-generated xmlbeans for ooxml schemas

**Spreadsheet (Excel)**
* initial support for autofilters
* support for data validation for ooxml format
* initial support for themes for ooxml format
* added implementation for new functions: RANDBETWEEN, POISSON, SUBTOTAL, TEXT, TRUNC
* support evaluation of indirect defined names in INDIRECT
* numerous fixes and performance optimizations in the Formula Evaluation module
* ability to add, modify and remove series from HSSF Charts
* numerous improvements in the cell data formatter (handling more formatting rules, better color detection, allow overriding of default locale)
* more examples including a rich "spreadsheet to HTML" converter

**Document (Word)**
* initial support for the HWPF revision marks authors list
* support for border codes in HWPF
* support for processing of symbols in HWPF
* support sections in Word 6 and Word 95 files
* improved reading of auto-saved ("complex") documents in HWPF
* improved support for manipulation of tables and paragraphs in XWPF

**SlideShow (PowerPoint)**
* allow editing workbooks embedded into HSLF slide shows

**Text Extraction**
* support for text extraction from XSLF tables
* add PublisherTextExtractor support to extractorfactory
* support attachments as embedded documents within the new OutlookTextExtractor
* new event based XSSF text extractor (XSSFEventBasedExcelExtractor)
* make it easier to tell which content types each POIXMLTextExtractor handles
* paragraph level as well as whole-file text extraction for word 6/95 files

* ...and much much more: code cleanup, many bug fixes and performance improvements

**Contributors**
---------------
The following people have contributed to this release by submitting bug reports or by participating in the issue resolution process (in strict alphabetical order).

Alexey Butchik        Jeff Lavezzo        Philippe Laflamme
Andrew Shirley        Jens Gatze          Raiko Eckstein
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

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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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1.490 reactive-object-pool 0.1.0.RELEASE

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1.498 cloudwatch-metrics-for-aws-java-sdk

1.11.508

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1.514 asm 3.1

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Apache Maven Wagon :: Providers :: HTTP Provider (http://maven.apache.org/wagon/wagon-providers/wagon-http)
  org.apache.maven.wagon:wagon-http:jar:2.8

Apache Maven Wagon :: Providers :: HTTP Shared Library (http://maven.apache.org/wagon/wagon-providers/wagon-http-shared)
  org.apache.maven.wagon:wagon-http-shared:jar:2.8

Apache Maven Wagon :: API (http://maven.apache.org/wagon/wagon-provider-api)
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Aether API (http://www.eclipse.org/aether/aether-api/) org.eclipse.aether:aether-api:jar:1.0.0.v20140518

Aether Connector Basic (http://www.eclipse.org/aether/aether-connector-basic/) org.eclipse.aether:aether-connector-basic:jar:1.0.0.v20140518

Aether Implementation (http://www.eclipse.org/aether/aether-impl/) org.eclipse.aether:aether-impl:jar:1.0.0.v20140518

Aether SPI (http://www.eclipse.org/aether/aether-spi/) org.eclipse.aether:aether-spi:jar:1.0.0.v20140518


Aether Utilities (http://www.eclipse.org/aether/aether-util/) org.eclipse.aether:aether-util:jar:1.0.0.v20140518

org.eclipse.sisu.inject (http://www.eclipse.org/sisu/org.eclipse.sisu.inject/)
  org.eclipse.sisu:org.eclipse.sisu.inject:jar:0.3.0.M1

org.eclipse.sisu.plexus (http://www.eclipse.org/sisu/org.eclipse.sisu.plexus/)
  org.eclipse.sisu:org.eclipse.sisu.plexus:jar:0.3.0.M1
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For the following files in the groovy-jsr223 component:

src/main/org/codehaus/groovy/jsr223/GroovyCompiledScript.java
src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
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<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
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# 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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data class License(val name: String, val url: URI, val headerFile: File)

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1.544 aws-java-sdk-for-amazon-chime

1.11.555

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1.546 aws-java-sdk-for-aws-device-farm

1.11.555

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1.11.257

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1.557 aws-java-sdk-for-amazon-elastic-container-service-for-kubernetes 1.11.555

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1.558 aws-java-sdk-for-aws-performance-insights 1.11.555

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1.559 aws-java-sdk-for-aws-codecommit

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1.560 jaxen 1.1.6

1.561 aws-java-sdk-for-amazon-translate 1.11.257

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1.568 aws-java-sdk-for-aws-health-apis-and-notifications 1.11.155

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1.569 apache-http-client 4.5.2

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1.7.2
1.571.1 Available under license :
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  data class License(val name: String, val url: URI, val headerFile: File)

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1.576 jackson-databind 2.12.4
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1.584 ognl 3.1.28
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/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen*///--------------------------------------------------------------------------
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// DAMAGE.
//-----------------------------------------------

/*
* This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
* language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
* Blanshard then made up the new name and reimplemented it using ANTLR, refining and
* polishing the language a bit on the way. Drew maintained the system for a couple of
* years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
* dependency on ANTLR.
*
* See package.html for a description of the language.
*/

options {
    // Parser options
    LOOKAHEAD = 1;
    STATIC = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT = true;
}

PARSER_BEGIN(OgnlParser)

package ognl;
```java
import java.math.*;

/**
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */
public class OgnlParser/*@bgen(jjtree)*/implements OgnlParserTreeConstants/*@egen*/
{
 /*@bgen(jjtree)
protected JJTOgnlParserState jjtree = new JJTOgnlParserState();

/*@egen*/
}

PARSER_END(OgnlParser)

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() : {}
{
  expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
  assignmentExpression() ( ","/*@bgen(jjtree) #Sequence( 2) */
  { 
    ASTSequence jjtn001 = new ASTSequence(JJTSEQUENCE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }
  try {
    /*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
    catch (Throwable jitte001) { 
      if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
      } else {
        jjtree.popNode();
      }
      if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
      }
    if (jjte001 instanceof ParseException) {
```
throw (ParseException)jjte001;
} catch (IOException jjte001) {
    throw (IOException)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
)

// assignment expression (level 13)
void assignmentExpression() : {
{
    conditionalTestExpression() ["=*/@bgen(jjtree) #Assign(2) /*/ 
        
        ASTAssign jjtn001 = new ASTAssign(JJTASSIGN);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
        }
        try {
            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);
            }
        }
    } catch (Exception jjte001) {
        throw (Exception)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }

    } catch (ParseException jjte001) {
        throw (ParseException)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }

    } catch (IOException jjte001) {
        throw (IOException)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }

// conditional test (level 12)
void conditionalTestExpression() : {
{ logicalOrExpression()
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```java
//@bgen(jjtree) #Test(3) */
{
    ASTTest jjtn001 = new ASTTest(JJTTEST);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
    //@egen*/ conditionalTestExpression()//@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 3);
        }
    }
    //@egen*/
}

//@egen*/
// logical or (||) (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() ("||" "or")//@bgen(jjtree) #Or(2) */
    
        ASTOr jjtn001 = new ASTOr(JJTOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        //@egen*/ logicalAndExpression()//@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
```
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

//@egen*/ )*

//@egen*/ includeOrExpression/@bgen(jjtree)*/ And( 2) */
{
    ASTAnd jjtn001 = new ASTAnd(JJTAND);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        includeOrExpression()//@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);
        }
    }
}
// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    inclusiveOrExpression() (("|" | "bor")/*@bgen(jjtree) #BitOr( 2) */
    {
        ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        exclusiveOrExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
/*@egen*/
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() (("^" | "xor")/*@bgen(jjtree) #Xor( 2) */
    {
        ASTXor jjtn001 = new ASTXor(JJTXOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        andExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
if (jjtc001) {
jtree.clearNodeScope(jjtn001);
jtc001 = false;
} else {
jtree.popNode();
}

if (jtte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}

if (jtte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}

throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
)

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {} {
    equalityExpression() (("&" | "band")/*@bgen(jjtree) #BitAnd(2) */
    {
        ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        equalityExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jtte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jtte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {

if (jjtc001) {
    jjtree.closeNodeScope(jjtn001, 2);
}

/*@egen*/
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {} {

    relationalExpression()
    {
        ("==" | "eq")/*@bgen(jjtree) #Eq( 2) */
        {
            ASTEq jjtn001 = new ASTEq(JJTEQ);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
            /*@egen*/ relationalExpression()/*@bgen(jjtree)*/
            catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
                throw (Error)jjte001;
            }
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    /*@egen*/
    |
    ("!=" | "neq")/*@bgen(jjtree) #NotEq( 2) */
    {
        ASTNotEq jjtn002 = new ASTNotEq(JJTNOTEQ);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
try {
    relationalExpression();
    catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        } else if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        } else {
            throw (Error)jjte002;
        }
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
}

// boolean relational expressions (level 5)
void relationalExpression() : {
    shiftExpression()
    (*@egen*/
    )*/
}

(*@egen*/ relationalExpression(*@egen*/ shiftExpression()*/@bgen(jjtree)*/
    )*/@bgen(jjtree)*/
    )*/@bgen(jjtree)/
}

try {
    shiftExpression();
    catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        } else if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        } else {
            throw (Error)jjte001;
        }
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
| (">" | "gt")/*@bgen(jjtree) #Greater( 2) */
{  
    ASTGreater jjtn002 = new ASTGreater(JJTGREATER);
    boolean jjtc002 = true;
    jtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jtree.closeNodeScope(jjtn002, 2);
    }
}

/*@egen*/
| ("<=" | "lte")/*@bgen(jjtree) #LessEq( 2) */
{  
    ASTLessEq jjtn003 = new ASTLessEq(JJTLESSEQ);
    boolean jjtc003 = true;
    jtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

/*@egen*/

("\>\=" | "gte")/*@bgen(jjtree) #GreaterEq(2) */
{
    ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
} try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte004) {
    if (jjtc004) {
        jjtree.clearNodeScope(jjtn004);
        jjtc004 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte004 instanceof RuntimeException) {
        throw (RuntimeException)jjte004;
    }
    if (jjte004 instanceof ParseException) {
        throw (ParseException)jjte004;
    }
    throw (Error)jjte004;
} finally {
    if (jjtc004) {
        jjtree.closeNodeScope(jjtn004, 2);
    }
}
/*@egen*/
| "in" /*@bgen(jjtree) #In (2) */
|{
ASTIn jjtn005 = new ASTIn(JJTIN);
boolean jtc005 = true;
jtree.openNodeScope(jjtn005);
}
try {
/*@egen*/ shiftExpression() /*@bgen(jjtree)*/
} catch (Throwable jjte005) {
  if (jtc005) {
    jjtree.clearNodeScope(jjtn005);
jtc005 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte005 instanceof RuntimeException) {
    throw (RuntimeException)jjte005;
  }
  if (jjte005 instanceof ParseException) {
    throw (ParseException)jjte005;
  }
  throw (Error)jjte005;
} finally {
  if (jtc005) {
    jjtree.closeNodeScope(jjtn005, 2);
  }
}
/*@egen*/
| "not" "in" /*@bgen(jjtree) #NotIn (2) */
|{
ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
boolean jtc006 = true;
jtree.openNodeScope(jjtn006);
}
try {
/*@egen*/ shiftExpression() /*@bgen(jjtree)*/
} catch (Throwable jjte006) {
  if (jtc006) {
    jjtree.clearNodeScope(jjtn006);
jtc006 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte006 instanceof RuntimeException) {
throw (RuntimeException)jjte006;
} else {
    throw (ParseException)jjte006;
}
throw (Error)jjte006;
} finally {
    if (jjtc006) {
        jjtree.closeNodeScope(jjt006, 2);
    }
}

/*@egen*/
)

//@gen

// bit shift expressions (level 4)
void shiftExpression() : {
    additiveExpression()
    ("<=" | "shl")/* @bgen(jjtree) #ShiftLeft(2) */
    {
        ASTShiftLeft jjtn001 = new ASTShiftLeft(JJTSLEFT);
        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);
            }
        }
    }
if (jjte003 instanceof ParseException) {
    throw (ParseException)jjte003;
}
throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

/*@egen*/
)*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    ("+"/*@bgen(jjtree) #Add( 2) */
    {
        ASTAdd jjtn001 = new ASTAdd(JJTADD);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        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*/
}
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.closeNodeScope(jjtn001, 2);
        }
    }
}

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
    unaryExpression()
    ("-*/@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*/
)*
}
jjtree.clearNodeScope(jjtn001);
jjtc001 = false;
} else {
    jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
//@egen*/
| /*//@bgen(jjtree) #Divide(2) */
{| 
    ASTDivide jjtn002 = new ASTDivide(JJTDIVIDE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
//@egen*/ unaryExpression()//@bgen(jjtree)*/
| catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
//@egen*/
"%"/*@bgen(jjtree) #Remainder( 2) */
{
    ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
    @egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    } else if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    } else {
        throw (Error)jjte003;
    }
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

/*@egen*/
)*/

//@gen(jjtree) #Remainder( 2) */
{
    ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
    @egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    } else if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    } else {
        throw (Error)jjte003;
    }
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

//@gen(jjtree) #Negate( 1) */
{
    ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
    @egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {

if (jjtc001) {
    jjtree.clearNodeScope(jjtn001);
    jjtc001 = false;
} else {
    jjtree.popNode();
}
if (jite001 instanceof RuntimeException) {
    throw (RuntimeException)jite001;
}
if (jite001 instanceof ParseException) {
    throw (ParseException)jite001;
} throw (Error)jite001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 1);
    }
}

/*@egen*/
|    
"+" unaryExpression() // Just leave it there
|    
"~"/*@bgen(jjtree) #BitNegate( 1) */
{
    ASTBitNegate jtn002 = new ASTBitNegate(JJTBITNEGATE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jtn002);
}
try {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jite002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jite002 instanceof RuntimeException) {
        throw (RuntimeException)jite002;
    }
    if (jite002 instanceof ParseException) {
        throw (ParseException)jite002;
    } throw (Error)jite002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jtn002, 1);
    }
}
/*@egen*/

("!" | "not")/*@bgen(jjtree) #Not( 1) */
{
    ASTNot jjtn003 = new ASTNot(JJTNOT);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003,  1);
    }
}

navigationChain()

"instanceof"
    t = <IDENT>/*@bgen(jjtree) #Instanceof( 1) */
    
    ASTInstanceof jjtn004 = new ASTInstanceof(JJTINSTANCEOF);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
} try {
    
    } catch (Throwable jjte004) {
        if (jjtc004) {
            jjtree.closeNodeScope(jjtn004,  1);
            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,  1);
    }
} sb = new StringBuffer(t.image); ionode = jjtn004; }/*@bgen(jjtree)*/
} finally {
    if (jjtc004) {
        jjtree.closeNodeScope(jjtn004, 1);
    }
}

/*@egen*/
(    "." t = <IDENT>         { sb.append('.').append( t.image ); }
)/*                          { ionode.setTargetType( new String(sb) ); }
];
)
}

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
(    "."/*@bgen(jjtree) #Chain( 2 )* /
    {
        ASTChain jjtn001 = new ASTChain(JJTCHAIN);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        @/*@egen*/
( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
    ( LOOKAHEAD(2) methodCall() | propertyName() )
    // Also handle "{", which requires a lookahead of 2.
    | ( LOOKAHEAD(2) projection() | selection() )
    | ("" expression() "")
)/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}
```java
ASTChain jjtn002 = new ASTChain(JJTCHAIN);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
try {
    index()
} 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);
    }
}

ASTEval jjtn003 = new ASTEval(JJTEVAL);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
try {
    "(" expression()
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 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> )/*@bgen(jjtree) #Const( 0) */
    {
        ASTConst jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
    /*@egen*//*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn001, 0);
        jjtc001 = false;
    }
    /*@egen*/
    { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
    } finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 0);
    }
    }
    /*@egen*/
    "true"/*@bgen(jjtree) #Const( 0) */
    {
        ASTConst jjtn002 = new ASTConst(JJTCONST);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
    /*@egen*//*@bgen(jjtree)*/
/*@egen*/                                  { jjtn002.setValue( Boolean.TRUE ); }/*@bgen(jjtree)*/
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 0);
    }
}

/*@egen*/                                  // Null is the default value in an ASTConst

/*/bgen(jjtree) */LOOKAHEAD(2) "#this" /*@bgen(jjtree) #ThisVarRef( 0) */
ASTThisVarRef jjtn005 = new ASTThisVarRef(JJTTHISVARREF);
    boolean jjtc005 = true;
    jjtree.openNodeScope(jjtn005);
    }
    try {
    } finally {
        if (jjtc005) {
            jjtree.closeNodeScope(jjtn005, 0);
        }
    }
    }
    ASTRootVarRef jjtn006 = new ASTRootVarRef(JJTROOTVARREF);
    boolean jjtc006 = true;
    jjtree.openNodeScope(jjtn006);
    try {
    } finally {
        if (jjtc006) {
            jjtree.closeNodeScope(jjtn006, 0);
        }
    }
    }
    ASTVarRef jjtn007 = new ASTVarRef(JJTVARREF);
    boolean jjtc007 = true;
    jjtree.openNodeScope(jjtn007);
    try {
    } finally {
        if (jjtc007) {
            jjtree.closeNodeScope(jjtn007, 0);
        }
    }
    }
    }
    })
jjtree.closeNodeScope(jjtn007, 0);
jjtc007 = false;
}
/*@egen*/ { jjtn007.setName(t.image); }/*@bgen(jjtree)*/
finally {
  if (jjtc007) {
    jjtree.closeNodeScope(jjtn007, 0);
  }
}
/*@egen*/
|
LOOKAHEAD(2) "." "[" expression() "]"/*@bgen(jjtree) #Const(1)*/
|
ASTConst jjtn008 = new ASTConst(JJTCONST);
boolean jjtc008 = true;
jjtree.openNodeScope(jjtn008);
try {
/*@egen*//*@bgen(jjtree)*/
{
  jjtree.closeNodeScope(jjtn008, 1);
  jjtc008 = false;
}
/*@egen*/ { jjtn008.setValue(jjtn008.jjtGetChild(0)); }/*@bgen(jjtree)*/
finally {
  if (jjtc008) {
    jjtree.closeNodeScope(jjtn008, 1);
  }
}
/*@egen*/
|
  staticReference()
  |
LOOKAHEAD(2) constructorCall()
  |
  // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
  ( LOOKAHEAD(2) methodCall() | propertyName() )
  |
index()
  |
  "." expression() ")"
  |
  "."/*@bgen(jjtree) List */
  |
  ASTList jjtn009 = new ASTList(JJTLIST);
  boolean jjtc009 = true;
  jjtree.openNodeScope(jjtn009);
try {
    /*@egen*/ [assignmentExpression() ("," assignmentExpression())*]/*@bgen(jjtree)*/
    } catch (Throwable jjte009) {
        if (jjtc009) {
            jjtree.clearNodeScope(jjtn009);
            jjtc009 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte009 instanceof RuntimeException) {
            throw (RuntimeException)jjte009;
        }
        if (jjte009 instanceof ParseException) {
            throw (ParseException)jjte009;
        }
        throw (Error)jjte009;
    } finally {
        if (jjtc009) {
            jjtree.closeNodeScope(jjtn009, true);
        }
    }

    /*@egen*/ "}"

    LOOKAHEAD(2)/*@bgen(jjtree) Map */
    {
        ASTMap jjtn010 = new ASTMap(JJTMAP);
        boolean jjtc010 = true;
        jjtree.openNodeScope(jjtn010);
    }
    try {
        /*@egen*/ ("#" (packageName=classReference())? "{" [keyValueExpression() ("," keyValueExpression())*] } [keyValueExpression() ("," keyValueExpression())*] )/*@bgen(jjtree)*/
        } catch (Throwable jjte010) {
            if (jjtc010) {
                jjtree.clearNodeScope(jjtn010);
                jjtc010 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte010 instanceof RuntimeException) {
                throw (RuntimeException)jjte010;
            }
            if (jjte010 instanceof ParseException) {
                throw (ParseException)jjte010;
            }
            throw (Error)jjte010;
        } finally {
            if (jjtc010) {

```
void keyValueExpression() : {}
/*@bgen(jjtree) KeyValue */
{
    ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        @*/egen*/
        ( assignmentExpression() (":" assignmentExpression())? )/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, true);
            }
        }
        @*/egen*/
    }
    void staticReference() : {
        String className = "java.lang.Math";
        Token t;
    }
    className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
        LOOKAHEAD(2)
        staticMethodCall( className )
t=<IDENT>/*@bgen(jjtree) #StaticField( 0) */
{
    ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        @/*@egen*/ try {
        jjtree.closeNodeScope(jjtn001, 0);
        jjtc001 = false;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 0);
            }
        }
    } catch (Exception exception) {
        throw exception;
    }
    @/*@egen*/
    jjtn001.init( className, t.image );
}
finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 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() : /*@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 jkte001) {
          if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
          } else {
            jjtree.popNode();
          }
          if (jkte001 instanceof RuntimeException) {
            throw (RuntimeException)jkte001;
          }
          if (jkte001 instanceof ParseException) {
            throw (ParseException)jkte001;
          } throw (Error)jkte001;
        }
      }
    }
    finally {
      if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
      }
    }
  )
  /*@egen*/
  ")"/*@bgen(jjtree)*/
  {
}
void propertyName()     { /*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    }

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

/*@egen*/
{    jjtn000.setClassName(className);
    jjtn000.setArray(true);
}
)

} 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 staticMethodCall( String className )               : {/*@bgen(jjtree) StaticMethod */
    ASTStaticMethod jjtn000 = new ASTStaticMethod(JJSTATICMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    try {
        jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        t=<IDENT>/*@bgen(jjtree) Const */
        {/*@egen*/
            ASTConst jjtn001 = new ASTConst(JJTCONST);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
            try {
                t=<IDENT>/*@bgen(jjtree) Const */
                {/*@egen*/
                    ASTConst jjtn001 = new ASTConst(JJTCONST);
                    boolean jjtc001 = true;
                    jjtree.openNodeScope(jjtn001);
                    try {
                        t=<IDENT>/*@bgen(jjtree) Const */
                        {/*@egen*/
                            ASTConst jjtn001 = new ASTConst(JJTCONST);
                            boolean jjtc001 = true;
                            jjtree.openNodeScope(jjtn001);
                        }
                    } finally {
                        if (jjtc001) {
                            jjtree.closeNodeScope(jjtn001, true);
                        }
                    }
                } finally {
                    if (jjtc001) {
                        jjtree.closeNodeScope(jjtn001, true);
                    }
                }
            } finally {
                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);
    }
}
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
} 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 methodCall() { /*@egen*/
    ASTMethod jjtn000 = new ASTMethod(JJTMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    Token t;
    } /*@egen*/
    try {
        /*@egen*/
        t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
        } /*@egen*/
    if (jjte000, t.image ); } /*@bgen(jjtree)*/
    catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
}
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}

/*@egen*/

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() : /*@bgen(jjtree) Project */
    ASTProject jjtn000 = new ASTProject(JJTPROJECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}{/*@bgen(jjtree) Project */
try {
    /*@egen*/
    "{" expression() "}"/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
void selection() : {}
{
    LOOKAHEAD(2) selectAll()
    |
    LOOKAHEAD(2) selectFirst()
    |
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() : /*@bgen(jjtree) Select */
    ASTSelect jjtn000 = new ASTSelect(JJTSELECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
} {/*@bgen(jjtree) Select */
    try {
        /*@egen*/
        "{ "?" expression() "}"/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException)jjte000;
            }
            throw (Error)jjte000;
        }
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@egen*/
}
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectFirst() : /*@bgen(jjtree) SelectFirst */
   ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
   boolean jjtc000 = true;
   jjtree.openNodeScope(jjtn000);
   /*@egen*/
} /*@@bgen(jjtree) SelectFirst */
try {
   /*@egen*/
   "[" "\^" expression() "]" /*@bgen(jjtree)*/
} catch (Throwable jjte000) {
   if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
   } else {
      jjtree.popNode();
   }
   if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
   }
   if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
   }
   throw (Error)jjte000;
} finally {
   if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
   }
}
/*@egen*/

/*
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectLast() : /*@bgen(jjtree) SelectLast */
   ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
   boolean jjtc000 = true;
   jjtree.openNodeScope(jjtn000);
   /*@egen*/
} /*@bgen(jjtree) SelectLast */
try {
   /*@egen*/
   "[" "$" expression() "]" /*@bgen(jjtree)*/
} catch (Throwable jjte000) {
   if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
   } else {
      jjtree.popNode();
   }
   if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
   }
   if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
   }
   throw (Error)jjte000;
} finally {
   if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
   }
}
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)*/
    {
        jjtree.closeNodeScope(jjtn000, true);
        jjtc000 = false;
    }
    /*@egen*/
    jjtn000.setIndexedAccess(true); }
    |
    |<DYNAMIC_SUBSCRIPT>/*@bgen(jjtree) Const */
    {
        ASTConst jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
    /*@egen*//*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn001, true);
        jjtc001 = false;
    }
/*@egen*/
{ jjtn001.setValue( token_source.literalValue ); }
/*@bgen(jjtree)*/
}
finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}

/*@egen*/
/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}

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

/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}

/*@egen*/
{
}

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /**<
     * Holds the last value computed by a constant token.
     */
    Object literalValue;
    /**<
     * Holds the last character escaped or in a character literal.
     */
    private char charValue;
    /**<
     * Holds char literal start token.
     */
    private char charLiteralStartQuote;
    /**<
     * Holds the last string literal parsed.
     */
private StringBuffer stringBuffer;
/** Converts an escape sequence into a character value. */
private char escapeChar()
{
int ofs = image.length() - 1;
switch ( image.charAt(ofs) ) {
case 'n': return '\n';
case 'r': return '\r';
case 't': return '\t';
case 'b': return '\b';
case 'f': return '\f';
case '\\': return '\\';
case '\'': return '\'';
case '\"': return '\"';
}
// Otherwise, it's an octal number. Find the backslash and convert.
while ( image.charAt(--ofs) != '\\' )
{}
int value = 0;
while ( ++ofs < image.length() )
value = (value << 3) | (image.charAt(ofs) - '0');
return (char) value;
}
private Object makeInt()
{
Object result;
String s = image.toString();
int base = 10;
if ( s.charAt(0) == '0' )
base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
if ( base == 16 )
s = s.substring(2); // Trim the 0x off the front
switch ( s.charAt(s.length()-1) ) {
case 'l': case 'L':
result = Long.valueOf( s.substring(0,s.length()-1), base );
break;
case 'h': case 'H':
result = new BigInteger( s.substring(0,s.length()-1), base );
break;
default:
result = Integer.valueOf( s, base );
break;

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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 );
    }
}
### TOKEN:

```java
    < 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;
        }
    }
}
```

### MORE:

```java
    /**
     * Character and string literals, whose object value is stored in the token manager's
     * "literalValue" field.
     */
    MORE:
    {
        "" : WithinBackCharLiteral
        | ""\" : WithinCharLiteral
        | "\" : WithinStringLiteral
    }
```
<WithinCharLiteral> MORE:
{
    < ESC: "\" ( ["\n","\r","\t","\b","\f","\r","\",","\",","\","]
        | ([0..3])? [0..7] ([0..7])?
    )
    >
    { charValue = escapeChar(); stringBuffer.append(charValue); } |
    < (\"\",\"\")>
    { charValue = image.charAt(image.length()-1); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
{
    < CHAR_LITERAL: "]]">
        {
            if (stringBuffer.length() == 1) {
                literalValue = new Character(charValue);
            } else {
                literalValue = new String(stringBuffer);
            }
        }
        : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
    < BACK_CHAR_ESC: <ESC> >
        { charValue = escapeChar(); }
    |
    < (~\"\",\"\")>
    { charValue = image.charAt(image.length()-1); }
}

<WithinBackCharLiteral> TOKEN:
{
    < BACK_CHAR_LITERAL: "]`)>
        { literalValue = new Character(charValue); }
    : DEFAULT
}

<WithinStringLiteral> MORE:
{
    < STRING_ESC: <ESC> >
        { stringBuffer.append(escapeChar()); }
    |
    < (~\"\",\"\")>
    { stringBuffer.append(image.charAt(image.length()-1)); }
}
/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */

TOKEN:
{
  <INT_LITERAL:
    ( "0" (["0"-"7"])* | ["1"-"9"] (["0"-"9"])* | "0" ["x","X"] (["0"-"9","a"-"f","A"-"F"])+ )
    (["l","L","h","H"])?
  >
    { literalValue = makeInt(); }  
  |
  <FLT_LITERAL:
    ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)? | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)? | <DEC_DIGITS> <FLT_SUFF> )
  >
    { literalValue = makeFloat(); }  
  |
  <DEC_FLT: (["0"-"9"])+ \. (["0"-"9"])* | \. (["0"-"9"])+
  |
  <DEC_DIGITS: (["0"-"9"])+
  |
  <EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+
  |
  <FLT_SUFF: ["d","D","f","F","b","B"] >
  }

Found in path(s):
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ognl.jj
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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/enhance/EnhancedClassLoader.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlInvokePermission.java
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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/AccessibleObjectHandlerJDK9Plus.java
* /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/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
**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.**

* If this exception is thrown it is expected that ognl will fall back to default ognl evaluation of the expression.

* @author jkuhnert

/ *
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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;
}
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
{
}

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() {
{
    expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() {
{
    assignmentExpression() ( "," assignmentExpression() #Sequence(2) )*
}

// assignment expression (level 13)
void assignmentExpression() {
{
    conditionalTestExpression() [ ":=" assignmentExpression() #Assign(2) ]
}

// conditional test (level 12)
void conditionalTestExpression() {
{
    logicalOrExpression()
        [ "?" conditionalTestExpression() ":=" conditionalTestExpression() #Test(3) ]
}

// logical or (||)  (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() ("||" | "or") logicalAndExpression() #Or(2)*
}

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression() ("&&" | "and") inclusiveOrExpression() #And(2)*
}

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() ("|" | "bor") exclusiveOrExpression() #BitOr(2)*
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() ("^" | "xor") andExpression() #Xor(2)*
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() ("&" | "band") equalityExpression() #BitAnd(2)*
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
    (
    ("==" | "eq") relationalExpression() #Eq(2)
    |
    ("!=" | "neq") relationalExpression() #NotEq(2)
    )*  
    
}

// boolean relational expressions (level 5)
void relationalExpression() : {}
// bit shift expressions (level 4)
void shiftExpression() : {}
{
    additiveExpression()
    ("<" | "lt") additiveExpression() #Less(2)
    |
    (">" | "gt") additiveExpression() #Greater(2)
    |
    ("<=" | "lte") additiveExpression() #LessEq(2)
    |
    (">=" | "gte") additiveExpression() #GreaterEq(2)
    |
    "in" shiftExpression() #In(2)
    |
    "not" "in" shiftExpression() #NotIn(2)
}*

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    ("<<<" | "shl") multiplicativeExpression() #ShiftLeft(2)
    |
    (">>>" | "shr") multiplicativeExpression() #ShiftRight(2)
    |
    (">>>" | "ushr") multiplicativeExpression() #UnsignedShiftRight(2)
}*

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
    unaryExpression()
    ("*" multiplicativeExpression() #Add(2)
    |
    "/" multiplicativeExpression() #Subtract(2)
}
// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
    ASTInstanceof ionode;
}
{
    ("-" unaryExpression() #Negate(1)
    | 
    "#" unaryExpression() #Multiply(2)
    | 
    "/" unaryExpression() #Divide(2)
    | 
    "%" unaryExpression() #Remainder(2)
    )*
}

// 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)
/* 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()
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) ("#" (className=classReference())? "{" [keyValueExpression() ("," keyValueExpression())*] }" ) #Map
        )
    }

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;
}
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.init( className, t.image ); }
}
void projection() #Project : {} {
    "[" expression() ""]"
}

void selection() : {} {
    LOOKAHEAD(2) selectAll()
    | LOOKAHEAD(2) selectFirst()
    | LOOKAHEAD(2) selectLast()
}

void selectAll() #Select : {} {
    "[{ "$" expression() "}""
}

void selectFirst() #SelectFirst : {} {
    "[{ "^" expression() "}""
}

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;

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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);
            break;
    }
}

// Whitespace -- ignored
SKIP:
{
    " " | \"" | \"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"-"u31ff", "u3300"-"u33ff", "u3400"-"u3d2d", "u4e00"-"u9fff", "uf900"-"ufaff"
    ] >
|
    < #DIGIT: [ "u0030"-"u0039", "u0660"-"u0669", "u06f0"-"u06f9", "u0966"-"u096f", "u096e"-"u097f", "u0a66"-"u0a6f", "u0ae6"-"u0afe", "u0b66"-"u0b6f", "u0be7"-"u0bef", "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:
switch (image.charAt(1)) {
    case '^': literalValue = DynamicSubscript.first; break;
    case '|': literalValue = DynamicSubscript.mid; break;
    case '$': literalValue = DynamicSubscript.last; break;
    case '*': literalValue = DynamicSubscript.all; break;
}

/**
* Character and string literals, whose object value is stored in the token manager's
* "literalValue" field.
*/
MORE:
{
    "`": WithinBackCharLiteral
    | 
    ""   [ stringBuffer = new StringBuffer(); ]: WithinCharLiteral
    | 
    ": 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
/**
 * 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>)?

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

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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlOps.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/MapPropertyAccessor.java
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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTStaticMethod.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTProject.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTChain.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlContext.java
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1.588 joda-time 2.2

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Other developers who have contributed code are:

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 * /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/writer/JsonReaderI.java
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* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/DefaultMapper.java

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jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Log4JCategoryLog.java
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1.601 jackson-databind 2.6.7.1

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1.11.555

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  analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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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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# aws-java-sdk-for-amazon-machine-learning 1.11.172

AWS SDK for Java

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1.11.508

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1.627 web-services-metadata 1.1.2

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1.632 jackson-databind 2.12.3
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  apacheId: milinda
  githubId: milinda
  org: Indiana University
  role: Committer
1.637 mp3-spi 1.9.5-1

1.638 aws-java-sdk-for-amazon-sns 1.11.155

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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/RSASSA.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/DirectCryptoProvider.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/util/BoundedInputStream.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/large/ECKeyGenerator.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/large/ECDSAPrivateKey.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/large/ECDSAPublicKey.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/large/ECDSA.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/impl/large/RSASSA.java

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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/jwk/source/package-info.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jwt/proc/JWTProcessor.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/PlainHeader.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/jwk/JWK.java
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/util/JSONObjectUtils.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/DirectDecrypter.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/Header.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/proc/AbstractJWKSelectorWithSource.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/CompressionAlgorithm.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/jwk/ThumbprintUtils.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/JOSEObjectType.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jwt/JWTClaimsSetTransformer.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jwt/proc/package-info.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/X509CertUtils.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/AESDecrypter.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/Requirement.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/jwk/source/ImmutableJWKSet.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/RSASSAVerifier.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/util/IntegerUtils.java
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java

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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist-bytecode/annotation/DoubleMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist-bytecode/annotation/EnumMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist-bytecode/annotation/AnnotationMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist-bytecode/annotation/CharMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist-bytecode/annotation/ClassMemberValue.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtNewNestedClass.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/analysis/IntQueue.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/framedump.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtArray.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtClass.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/runtime/Desc.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/LoaderClassPath.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/analysis/Executor.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/util/HotSwapper.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/ArrayInit.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/expr/Handler.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/Keyword.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtConstructor.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/NotFoundException.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/Mnemonic.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/AccessFlag.java
1.642 aws-sdk-for-java-models 1.11.555

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1.660 aws-java-sdk-for-aws-budgets 1.11.555

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1.661 aws-java-sdk-for-aws-marketplace-metering-service 1.11.172

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1.11.155

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1.681 joda-time 2.8.1

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1.682 aws-java-sdk-for-firewall-management

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*/

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

@header {
    package org.antlr.v4.parse;
    import org.antlr.v4.misc.Utils;
    import org.antlr.v4.misc. *
    import org.antlr.v4.tool. *
    import org.antlr.v4.tool.ast. *
    import java.util.List;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.ArrayList;
    import org.antlr.v4.runtime.misc.IntervalSet;
@members {
  public String currentRuleName;
  public GrammarAST currentAlt;
  public Grammar g;
  public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
  }
}

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

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

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
  @after { GrammarTransformPipeline.setGrammarPtr(g, $tree); }
  :^ebnfSuffix blockSet -> ^ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet))
  ;
ebnfSuffix
  @after { $tree = (GrammarAST)adaptor.dupNode($start); }
  :OPTIONAL
  |CLOSURE
  |POSITIVE_CLOSURE
  ;

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

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, Stree);
}
:^*(a=STRING_LITERAL elementOptions) ![inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1]?
| a=STRING_LITERAL ![inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1]?
| ![inLexer]?:> ^(TOKEN_REF elementOptions)
| ![inLexer]?:> TOKEN_REF
| ![inLexer]?:> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}
);

elementOptions
:^*(ELEMENT_OPTIONS elementOption*)
;

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

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g

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/*
/*
This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.
*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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tree grammar ATNBuilder;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
    //filter   = true;
}

package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;

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 .*)?
    {alternate
        [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, $lexerCommandExpr.start);}
ID
  {$cmd = factory.lexerCommand($ID);}  ;

lexerCommandExpr
  :ID
  |INT
  ;
  
element returns [ATNFactory.Handle p]
  :labeledElement{${p = $labeledElement.p;}
  [atom{${p = $atom.p;}
  [subrule{${p = $subrule.p;}
  | ACTION{${p = factory.action((ActionAST)$ACTION);}
  | SEMPRED{${p = factory.sempred((PredAST)$SEMPRED);}
  | ^(ACTION .){${p = factory.action((ActionAST)$ACTION);}
  | ^(SEMPRED .){${p = factory.sempred((PredAST)$SEMPRED);}
  | ^NOT b=blockSet[true]{$p = $b.p;}
  | LEXER_CHAR_SET{$p = factory.charSetLiteral($start);}
  ;

astOperand returns [ATNFactory.Handle p]
  :atom{${p = $atom.p;}
  | ^NOT blockSet[true]{$p = $blockSet.p;}
  ;

labeledElement returns [ATNFactory.Handle p]
  :^(ASSIGN ID element){${p = factory.label($element.p;)
  | ^PLUS_ASSIGN ID element){${p = factory.listLabel($element.p;)
  ;

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

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

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
  :^(STRING_LITERAL .)
  | ^(TOKEN_REF .)
  | STRING_LITERAL
[TOKEN_REF
|^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
    | LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
:range{Sp = range.p;}
|^(DOT ID terminal){Sp = $terminal.p;}
|^(DOT ID ruleref){Sp = $ruleref.p;}
    |^(WILDCARD .){Sp = factory.wildcard($start);}
| WILDCARD{Sp = factory.wildcard($start);}
| blockSet[false]{Sp = $blockSet.p;}
    | terminal{Sp = $terminal.p;}
    | ruleref{Sp = $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) {Sp = factory.range($a,$b);}
;

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

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

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/ATNBuilder.g
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 */

/** 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">";

    var atn
    var atn = new antlr4.atn.ANTLRSemanticErrorRecoverableATN.Deserializer().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> ];

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

    var atn
    var atn = new antlr4.atn.ANTLRSemanticErrorRecoverableATN.Deserializer().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;
            }
        }
    <endif>

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

    >>

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

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

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

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

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

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n"><!
Define fields of this parser to export the context classes !>
<pARSER name>.<currentRule.ctxType> = <currentRule.ctxType>;
<pARSER name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator="\", ") { var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
this.enterRule(localctx, <currentRule.startState>, <PARSER name>.RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<code>
<postamble; separator="\n">
<namedActions.after>
<if(exceptions)>
<exceptions; separator="\n">
<else>
} catch (re) {
if(re instanceof antlr4.error.RecognitionException) {
localctx.exception = re;
this._errHandler.reportError(this, re);
this._errHandler.recover(this, re);
} else {
throw re;
}
</else>
<endif> finally {
<finallyAction>
this.exitRule();
}
return localctx;}}}}

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

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

<parser.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.prototype.<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.altNum>);
while(<loopExpr>) {
    <alts; separator="\n">
    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    <iteration>
}

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

// LL(*) stuff

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

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

>>
StarBlock(choice, alts, sync, iteration) ::= <<
  this.state = choice.stateNumber;
  this._errHandler.sync(this);
  var _alt = this._interp.adaptivePredict(this._input, choice.decision, this._ctx);
  while(_alt!=[choice.exitAlt] && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
    if(_alt===1)^+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^+1<endif>;
  do {
    switch (_alt) {
      <alts:{alt|
        case 1^+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 | 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><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:[1 | labelref(l) = ]} this._input.LT(1); }\n\nif (invert) if (m.varName <= 0 || expr) { \n  if (m.labels) {m.labels:[1 | labelref(l) = ]} this._errHandler.recoverInline(this); \n} else { \n  this._errHandler.reportMatch(this); \n  this.consume(); \n}\n\nWildcard(w) ::= <<
  this.state = <w.stateNumber>;
  if (w.labels) {w.labels:[1 | labelref(l) = ]} matchWildcard();
>>\n
// ACTION STUFF\n\nAction(a, foo, chunks) ::= "<chunks>"

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

SemPred(p, chunks, failChunks) ::= <<
  this.state = <p.stateNumber>;
  if (!<chunks>) { \n    throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks), <failChunks><elseif(p.msg), <p.msg><endif>); \n  }\n>>\n
ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) { \n    <catchAction> \n  }\n>>\n
// lexer actions are not associated with model objects\n\nLexerSkipCommand() ::= "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) ::= "<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>.text)"
TokenPropertyRef_type(t) ::= "(ctx(t).<t.label>.type)"
TokenPropertyRef_line(t) ::= "(ctx(t).<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(ctx(t).<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(ctx(t).<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(ctx(t).<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(ctx(t).<t.label>.text)"

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

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

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

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

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

ContextTokenGetterDecl(t) ::= <<<
 <t.name> = function() {
   return this.getToken(<parser.name>.<t.name>, 0);
}
// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

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

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

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

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

/** The rule context name is the rule followed by a suffix; e.g.,
*r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

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

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

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

<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 6.2.0  5239
**AltLabelStructDecl**<br>struct, attrs, getters, dispatchMethods) ::= \<<<br>  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">\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);
  }
};

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

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

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

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

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

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

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

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

  <namedActions.header>

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

<atn>

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

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

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

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

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

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

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

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

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

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

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

<namedActions.members>

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

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

>>

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

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

*/
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 */

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
    tokenVocab=ANTLRParser;
    ASTLabelType=GrammarAST;
}

@header {
    package org.antlr.v4.parse;

    import org.antlr.v4.misc. *
    import org.antlr.v4.tool. *
    import org.antlr.v4.tool.ast. *
}

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

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

@rulecatch { }

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

exceptionHandler
  : ^(CATCH ARG_ACTION ACTION)
  ;

finallyClause
  : ^(FINALLY ACTION)
  ;

ruleModifier
  : PUBLIC
  | PRIVATE
  | PROTECTED
  ;

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

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

binary
  : ^^( ALT elementOptions? recurse element* recurse epsilonElement* )
    {setAltAssoc((AltAST)$ALT, currentOuterAltNumber);}
  ;
prefix
 : ^(ALT elementOptions? element+ recurse epsilonElement*)
 )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 :suffix
 : ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 : nonLeftRecur
 : ^(ALT elementOptions? element+)
 : recurse
 : ^(ASSIGN ID recurseNoLabel)
  [^PLUS_ASSIGN ID recurseNoLabel]
 | recurseNoLabel
 : recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)) ? RULE_REF;

  token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {t = $s.t;})
  [^PLUS_ASSIGN ID s=token {t = $s.t;})
 | b=STRING_LITERAL    {t = $b;}
  |^(b=STRING_LITERAL elementOptions){t = $b;}
 |^(c=TOKEN_REF elementOptions){t = $c;}
 |c=TOKEN_REF        {t = $c;}
 : elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 : elementOption
 : ID
 | ^(ASSIGN ID ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 : element
 : atom
Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
  jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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 */

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<

  digraph ATN {
    rankdir=LR;
    <decisionRanks; separator="\n">}
  <states; separator="\n">}
  <edges; separator="\n">}

>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<

digraph <name> {

 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>", 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>", 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">], shape=record, fixedsize=false
<else>
  , shape=circle, fixedsize=true, width=.55
<endif>
  , peripheries=1];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
<! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
<if(rest(transitions))>
  [!
  ! Label on the left side of the record node. !>
  <label>
  |
  ! Named ports in order on right side of record node, no display text. !>
  {<transitions:{t<p<i0>>}; separator="|">}}
<else>
  <label>
<endif>
"
<if(rest(transitions))>
  , shape=record, fixedsize=false
<else>
  , shape=circle, fixedsize=true, width=.55
<endif>
  , peripheries=1];
%>
stopstate(name,label,actionIndex,useBox) ::= <<
  <name>[fontsize=11, label="<label><if(actionIndex)>,
  \action:<actionIndex><endif>",
  <if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
  width=.6<endif>];
>>

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* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/ANTLRParser.g
No license file was found, but licenses were detected in source scan.

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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)>

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namespace <file.genPackage> {

using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// <summary>
/// This interface defines a complete listener for a parse tree produced by
/// <see cref="<csIdentifier.(file.parserName)>"/>
/// </summary>
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)>"/>
    /// 
    /// <param name="context">The parse tree.</param>
    void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
    /// 
    /// <summary>
    /// Exit a parse tree produced by the <c><lname></c> labeled alternative in <see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>
    /// 
    /// <param name="context">The parse tree.</param>
    void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<file(if(file.genPackage)> namespace <file.genPackage> {
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>
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    /// <summary>
    /// Enter a parse tree produced by the \c<lname>\c
    /// labeled alternative in \see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/.
    /// </summary>
    /// <para>The default implementation does nothing.</para>
    /// <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)>"/.
    /// </summary>
    /// <para>The default implementation does nothing.</para>
    /// <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 ExitEveryRule([NotNull] ParserRuleContext context) { }
/// 
/// The default implementation does nothing.
///
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
///
/// The default implementation does nothing.
///
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;

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

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

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

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

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
  protected static DFA[] decisionToDFA;
  protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
  public const int<branner(ctor="parser.ctor", ...)>
>>

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

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

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

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

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

<atn>
}>

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

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

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

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

/* This generates a private method since the actionIndex is generated, making an 
* overriding implementation impossible to maintain. */
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions:{index|
            case <index>: <actions.(index)> break;}; separator="\n"
    }
    }

/* This generates a private method since the predIndex is generated, making an 
* overriding implementation impossible to maintain. */
RuleSempredFunction(r, actions) ::= <<
private bool \_sempred(r.ctxType \_localctx, int predIndex) {
    switch (predIndex) {
    case \index: return \actions.(index); separator="\n"
    }
    return true;
}

RuleFunction(currentRule,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="","}) {
    _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
    <csIdentifier.(a.name)}>}; separator="\n"
    EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n"
    try {
    <if>(currentRule.hasLookaheadBlock)
    int \_alt;
    <endif>
    <code>
    <postamble; separator="\n"
    <namedActions.after>
    }
    <if>(exceptions)
    <exceptions; separator="\n"
    <else>
    catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
    }
    <endif>
    finally {
    <finallyAction>
    ExitRule();
    }
    return _localctx;
    }
// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule, args, code, locals, namedActions, finallyAction, postamble) ::= <<
@if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>({args; separator="", "}}) {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>})>);
EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
<namedActions.init>
<locals; separator="n">
try {
@if(currentRule.hasLookaheadBlock)>
int _alt;
@endif
<code>
$postamble; separator="n">
<namedActions.after>
}
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
}
finally {
  <finallyAction>
  ExitRule();
}
return _localctx;
}
>>
int _alt;
<endif>
<code>
<postamble; separator="\n"> <namedActions.after>
} catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
} finally {
  <finallyAction>
  ExitRule();
} return _localctx;
}
>>

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

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

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args: {a | , <a}>}) {
  ParserRuleContext _parentctx = Context;
  int _parentState = State;
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args: {a | , <csIdentifier.(a.name)>}>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <if(currentRule.hasLookaheadBlock)>
      int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
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)) {
    <cases(ttypes=look)
    <alt>
    break;}; separator="\n" <cases(ttypes=look)
    <alt>
    default:
    <error>
    }
>>

LL1OptionalBlock(choice, alts, error) ::= <<
    State = <choice.stateNumber>;
    ErrorHandler.Sync(this);
    switch (TokenStream.LA(1)) {

<choice.altLook,alts: {look,alt} <cases(ttypes=look)>
<alt>
break;}; separator="\n"
default:
<error>
}
>

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

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

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

// LL(*) stuff

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

---
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
    <alts:alt>
    case <i>: break;
    <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>: break;
    <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>: break;
            <alt>
            break;}; separator="\n"
            default: <error>
        }
    } >>
State = <choice.loopBackStateNumber>; // loopback/exit decision
ErrorHandler.Sync(this);
_\_alt = Interpreter.AdaptivePredict(TokenStream, <choice.decision>, Context);
} while (_\_alt!=<choice.exitAlt> && _\_alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER);
>

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

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

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

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

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

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

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

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

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

InvokeRule(r, argExprsChunks) ::= <<
State = r.stateNumber; <if(r.labels)<r.labels:{l | <labelref(l)> = ]}>endif><csIdentifier.(r.name)>(<if(r.ast.options.p)<r.ast.options.p><if(argExprsChunks),<endif><endif><argExprsChunks>);
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> \leq 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:0"
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) ::= <%(<ss.ruleName; format="cap">Context)GetInvokingContext(<ss.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::= <%(<ss.ruleName; format="cap">Context)GetInvokingContext(<ss.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);
}
>>
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,ctorAttr,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) {
                <ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
            }<endif>
            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.attr:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
            }<endif>
            <dispatchMethods; separator="\n">
            <extensionMembers; separator="\n">
        }
    >>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
    public partial class <struct.name> : <currentRule.name; format="cap">Context {
        <attrs:{a | public <a>;}; separator="\n">
        <getters:{g | <g>}; separator="\n">
        public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
        <dispatchMethods; separator="\n">
    >>
ListenerDispatchMethod(method) ::= <<
  public override void <if(method.isEnter)> Enter <else> Exit <endif> Rule(IParseTreeListener listener) {
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter <else>Exit <endif><struct.derivedFromName; format="cap">(this);
  }
>>

VisitorDispatchMethod(method) ::= <<
  public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
    I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
    if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
    else return visitor.VisitChildren(this);
  }
>>

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

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

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

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;
recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
  _localctx = new <ctxName>Context(_parentctx, _parentState);
  <if(label)>
  _localctx.<label>.Add(_prevctx);
  <else>
  _localctx.<label> = _prevctx;
  <endif>
  <endif>
  PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
</if>
<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>
</if>
>>

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> 
};

<namedActions.members>

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

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

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

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

public override string[] ModeNames { get { return modeNames; } } 

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

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

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

>>

SerializedATN(model) ::= <<
private static string _serializedATN = _serializeATN();
private static string _serializeATN()
{
    StringBuilder sb = new StringBuilder();
    sb.Append("<model.serialized; wrap={";<\n"<\t>sb.Append("}">);
    return sb.ToString();
}

public static readonly ATN _ATN =
new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());

>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
"DEFAULT_MODE" : "DefaultMode",
default : key
]

channelName ::= [
"HIDDEN" : "Hidden",
"DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
default : key
]

tokenType ::= [
"EOF" : "Eof",
default : key
]

csIdentifier ::= [
"abstract" : "@abstract",
"as" : "@as",
"base" : "@base",
"bool" : "@bool",
"break" : "@break",
"byte" : "@byte",
"case" : "@case",
"catch" : "@catch",
"char" : "@char",
"checked" : "@checked",
"class" : "@class",
]
"const" : "@const",
"continue" : "@continue",
"decimal" : "@decimal",
"default" : "@default",
"delegate" : "@delegate",
"do" : "@do",
"double" : "@double",
"else" : "@else",
"enum" : "@enum",
"event" : "@event",
"explicit" : "@explicit",
"extern" : "@extern",
"false" : "@false",
"finally" : "@finally",
"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
    package org.antlr.v4.parse;
    import org.antlr.v4.tool.*;
    import org.antlr.v4.tool.ast.*;
}

@members {
    ActionSplitterListener delegate;

    public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
        this(input, new RecognizerSharedState());
        this.delegate = delegate;
    }

    /** force filtering (and return tokens). triggers all above actions. */
    public List<Token> getActionTokens() {
        List<Token> chunks = new ArrayList<Token>();
        Token t = nextToken();
        while ( t.getType()!=Token.EOF ) {
            chunks.add(t);
            t = nextToken();
        }
        return chunks;
    }

    private boolean isIDStartChar(int c) {
        return c == '_' || Character.isLetter(c);
    }

    // ignore comments right away

    COMMENT
        : '/\*' ( options {greedy=false;} : . )* '/\* ' {delegate.text($text);}
        ;
LINE_COMMENT
    : '/' (~('n' | '\r')* 'r'? 'n')? delegate.text($text); }
;

SET_NONLOCAL_ATTR
: '$' x=ID '::' y=ID WS? '=' exp=ATTR_VALUE_EXPR ';
{
  delegate.setNonLocalAttr($text, $x, $y, $exp);
}
;

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
: '$' x=ID WS? '=' exp=ATTR_VALUE_EXPR ';
{
  delegate.setAttr($text, $x, $exp);
}
;

ATTR
: '$' x=ID {delegate.attr($text, $x);} 
;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: (c=~('('| '$') {buf.append((char)$c);}
  | '\$' {buf.append('$');}
  | '\' c=~('$') {buf.append('\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
)++
;

fragment
ID : ('a'..'z'| 'A'..'Z'| '_' ) ('a'..'z'| 'A'..'Z'|'0'..'9'| '_')*
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
Open Source Used In imicampaign 6.2.0  5278

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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)>
  # 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):

    `<file.visitorNames:{lname | # Visit a parse tree produced by `<file.parserName>`#<lname>. def visit<lname; format="cap">(self, ctx):
        return self.visitChildren(ctx)
    }; separator="\n">``

fileHeader(grammarFileName, ANTLRVersion) ::= <<<
# Generated from `<grammarFileName>` by ANTLR `<ANTLRVersion>`
>>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<<
  <Parser_(ctor="parser_ctor", ...)>  
>>> Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<<
  <if(superClass)>  
  from .<superClass> import <superClass>  
  <endif>\n
<atn>

class `<parser.name>` ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

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

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

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

    ruleNames = [ <parser.ruleNames:{r | u"<r>"}; separator="", wrap, anchor> ]
EOF = <TokenLabelType()> . EOF
<if(parser.tokens)>
<parser.tokens: { k | k = <parser.tokens.(k)> }; separator="\n", wrap, anchor>
<endif>

<parser:(ctor)()>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates == None:
        self._predicates = dict()
<parser.sempredFuncs.values:{ f |
    self._predicates[f.ruleIndex] = self.<f.name>_sempred}; separator="\n        ”>
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

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

>>
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) := <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{ f |
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n”>
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n”>
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))

parser_ctor(p) ::= <<
    def __init__(self, input):
        super(<parser.name>, self).__init__(input)
        self.checkVersion("<file.ANTLRVersion>")
        self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
        self._predicates = None

    >>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
    def <r.name>_action(self, localctx , actionIndex):
        <actions:{index|
            <if(first(actions))>
                if actionIndex == <index>:
                    <actions.(index)> 
            <elseif(rest(actions))>
                elif actionIndex == <index>:
                    <actions.(index)> 
            <endif>]; separator="\n">
    >>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
    def <r.name>_sempred(self, localctx, predIndex):
        <endif>
        <if(sempredFuncs)>
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}>>):  
    _parentctx = self._ctx  
    _parentState = self.state  
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>}  
    _prevctx = localctx  
    _startState = <currentRule.startState>  
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)  
    <namedActions.init>  
    <locals; separator="\n">  
    try:  
        <code>  
        <postamble; separator="\n">  
        <namedActions.after>  
        except RecognitionException as re:  
            localctx.exception = re  
            self._errHandler.reportError(self, re)  
            self._errHandler.recover(self, re)  
        finally:  
            <finallyAction>  
            self.unrollRecursionContexts(_parentctx)  
            return localctx  
    >>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<  
    self.state = <choice.stateNumber>  
    self._errHandler.sync(self)  
    <if(choice.label)><labelref(choice.label) = _input.LT(1)<endif>  
    <preamble; separator="\n">  
    token = self._input.LA(1)  
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)>  
    <alt>  
    pass}; separator="\nel">
else:
    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
    self.state = <choice.stateNumber>
    self._errHandler.sync(self)
    token = self._input.LA(1)
    <choice.altLook, alts:{look, alt} <cases(ttypes=look)>
    <alt>
        pass; separator="\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>!>
    >>

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.blockStartStateNumber> <! alt block decision !>
    _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 else 0
while _alter != choice.exitAlt and _alter != ATN.INVALID_ALT_NUMBER:
    for _alter in [alt]: separator="\n"
        else:
            else:
                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)>}; 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 \texttt{bits.ttypes} contains at most two items
\begin{verbatim}
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype \mid \texttt{s.varName}==\texttt{parser.name}.<ttype>}; separator=" or ">
%

cases(ttypes) ::= <<
if token in [\texttt{<types:{t \mid \texttt{parser.name}.<t>}; separator=", "; }]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = \langle r.stateNumber\rangle
\textbf{if (r.labels)}<\langle r.labels:[1 \mid \texttt{labelref(l)}] = ]\textbf{endif}self.\langle r.name\rangle(\textbf{if (r.ast.options.p)}\langle r.ast.options.p\rangle\langle\textbf{if (argExprsChunks)}\langle\textbf{endif}\langle rargExprsChunks}\langle\textbf{endif}argExprsChunks)\langle\textbf{endif}argExprsChunks

MatchToken(m) ::= <<
self.state = \langle m.stateNumber\rangle
\textbf{if (m.labels)}<\langle m.labels:[1 \mid \texttt{labelref(l)}] = ]\textbf{endif}self.match(\langle m.name\rangle)

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 = \langle m.stateNumber\rangle
\textbf{if (m.labels)}<\langle m.labels:[1 \mid \texttt{labelref(l)}] = ]\textbf{endif}self._input.LT(1)<\textbf{endif}capture
\textbf{if (invert)}\textbf{if <m.varName> \leq 0 or expr}<\textbf{else}if not(expr)<\textbf{endif}:
\textbf{if (m.labels)}<\langle m.labels:[1 \mid \texttt{labelref(l)}] = ]\textbf{else}self._errHandler.recoverInline(self)
else:
self._errHandler.reportMatch(self)
self.consume()

Wildcard(w) ::= <<
self.state = \langle w.stateNumber\rangle
\textbf{if (w.labels)}<\langle w.labels:[1 \mid \texttt{labelref(l)}] = ]\textbf{endif}self.matchWildcard()

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>")
ArgAction(a, chunks) ::= "<chunks>")
SemPred(p, chunks, failChunks) ::= <<

// \text{Open Source Used In imicampaign 6.2.0 5288}
self.state = <p.stateNumber>
if not <chucks>:
    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_post(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 | <a>}; separator="\n">;
        <struct.ctorAttrs:{a | self.<a.name> = <a.name}>; separator="\n">;
        <getters:{g | <g>}; separator="\n\n">;

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

    <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx):
        super(<parser.name>.<struct.name>, self).copyFrom(ctx)
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>

<l Lexer>

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

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

        atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

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

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

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

literalNames = [ u"<INVALID>",
                <lexer.literalNames:{t | u<t>}; separator="", wrap, anchor> ]

symbolicNames = [ u"<INVALID>",
                 <lexer.symbolicNames:{t | u<t>}; separator="", wrap, anchor> ]

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

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None):
    super(<lexer.name>, self).__init__(input)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

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

>>

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

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap=["]\n        buf.write(u")"\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"

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

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 */

javaTypeInitMap ::= [
"int":"0",
"long":"0",

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"float":"0.0f",
"double":"0.0",
"boolean":"false",
"byte":"0",
"short":"0",
"char":"0",
default:"null" // anything other than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;
/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames:{lname |
/**
* Enter a parse tree produced by the {@code <lname> label}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>
*}. 
*/
}<else>
* Enter a parse tree produced by [@link <file.parserName>#{lname}].
@endef
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
@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}}.
@endef
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx); 
}}
>
}

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
@if(file.genPackage)
package <file.genPackage>;
@endef
<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) { 
}}

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/**
 * @inheritDoc
 *
 * The default implementation does nothing.
 */
@Override public void enterEveryRule(ParserRuleContext ctx) { }

/**
 * @inheritDoc
 *
 * The default implementation does nothing.
 */
@Override public void exitEveryRule(ParserRuleContext ctx) { }

/**
 * @inheritDoc
 *
 * The default implementation does nothing.
 */
@Override public void visitTerminal(TerminalNode node) { }

/**
 * @inheritDoc
 *
 * 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 |
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the [@code <iname>]
* labeled alternative in [@link <file.parserName>#:<file.visitorLabelRuleNames.(iname)>].
* @else
* Visit a parse tree produced by [@link <file.parserName>#:<iname>].
* @endif
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of [@link <file.grammarName>Visitor],
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param <T> The return type of the visit operation. Use [@link Void] for
 * operations with no return type.
 */
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> { 
<file.visitorNames:{lname |
/**
 * [@inheritDoc]}
*
<p>The default implementation returns the result of calling
* [@link #visitChildren] on [@code ctx].</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); }
}
>>

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

Parser(parser,_funcs, atn, sempredFuncs, superClass) ::= <<
<Parser.(ctor="parser_ctor", ...)>
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@ SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
;if(parser.tokens)>
public static final int <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="", wrap, anchor>;
</endif>
public static final int <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="", wrap, anchor>;
public static final String[] ruleNames = {
<parser.ruleNames:{r | "<r>"}; separator="", wrap, anchor>;
};
<vocabulary(parser.literalNames, parser.symbolicNames)>

@ Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@ Override
public String[] getRuleNames() { return ruleNames; }

@ Override
public String getSerializedATN() { return _serializedATN; }

@ Override
public ATN getATN() { return _ATN; }

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

</if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
</sempredFuncs.values; separator="\n">
vocabulary(literalNames, symbolicNames) ::= <<
private static final String[] _LITERAL_NAMES = {
	<literalNames:{t | <t>}; null="null", separator="", wrap, anchor>
};
private static final String[] _SYMBOLIC_NAMES = {
	<symbolicNames:{t | <t>}; null="null", separator="", wrap, anchor>
};
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES, _SYMBOLIC_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {

tokenNames = new String[_SYMBOLIC_NAMES.length];
for (int i = 0; i < tokenNames.length; i++) {

tokenNames[i] = VOCABULARY.getLiteralName(i);
if (tokenNames[i] == null) {

tokenNames[i] = VOCABULARY.getSymbolicName(i);
}
if (tokenNames[i] == null) {

tokenNames[i] = "\<INVALID>";
}
}

@Override
@Deprecated
public String[] getTokenNames() {
return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
return VOCABULARY;
}
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
@if(actionFuncs)
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
switch (ruleIndex) {
<recog.actionFuncs.values:{f|
  case <f.ruleIndex>: 
  <f.name>_action((<f.ctxType>)_localctx, actionIndex);
  break;}; separator="\n">}
}<actionFuncs.values; separator="\n">
@endef
@if(sempredFuncs)
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<recog.sempredFuncs.values:{f|
  case <f.ruleIndex>: 
  return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">}
return true;
}<sempredFuncs.values; separator="\n">
@endif
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
  super(input);
  _interp = new ParserATNSimulator(this._ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
switch (actionIndex) {
<actions:{index|
  case <index>
  <actions.(index)> 
  break;}; separator="\n">}
}<actions;{index}
>>
/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

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

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble, exceptions) ::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
<if(currentRule.modifiers)> <currentRule.modifiers:{f | <f> }><else>public final <endif> <currentRule.ctxType> <currentRule.name>(<args; separator=",">) throws RecognitionException {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>);
enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
$postamble; separator="\n">
<namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch (RecognitionException re) {
_localcxt.exception = re;
_errHandler.reportError(this, re);
_errHandler.recover(this, re);
}
<endif>
finally {
<finallyAction>
exitRule();
}
return _localctx;
}

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

<ruleCtx>
<altLabelCtxs:[1 | <altLabelCtxs.(l)>]; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType> <currentRule.name>((args; separator="",") throws RecognitionException {
return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
ParserRuleContext _parentctx = _ctx;
int _parentState = getState();
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.name>}>);
<currentRule.ctxType> _prevctx = _localctx;
<int _startState = <currentRule.startState>>
enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
}
finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
}
return _localctx;
}

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label) = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<case types=look>
<alt>break;}; separator="\n">
default:
<error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
switch (_input.LA(1)) {
<case types=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>
<alt>
break;}; separator="\n"

}\n
StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>._ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1&&!(!choice.ast.greedy))1+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<!(!choice.ast.greedy)++1</endif>;
do {
switch (_alt) {
<alts:{alt|<i><if(!choice.ast.greedy)++1</endif>>}<alt>
break;}; separator="\n"
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

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

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

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

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

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

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

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

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

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

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

MatchToken(m) ::= <<
  setState(<m.stateNumber>);
  <if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
match(<m.name>);
  >>

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
  setState(<m.stateNumber>);
  <if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
  <capture>
  >>
if ( if(invert) \texttt{m.varName} \leq 0 || \texttt{else} !\texttt{endif}(\texttt{expr}) ) {
if(\texttt{m.labels})\texttt{m.labels};[1 | \texttt{labelref(l)} = (Token)]\texttt{endif}_\texttt{errHandler}.recoverInline(this);
}
else {
if ( _\texttt{input}.LA(1) == Token.EOF ) matchedEOF = true;
_\texttt{errHandler}.reportMatch(this);
consume();
}

\textbf{Wildcard(w)} ::= <<
setState(\texttt{w.stateNumber});
\texttt{if(w.labels)}\texttt{w.labels};[1 | \texttt{labelref(l)} = ]\texttt{endif}_\texttt{matchWildcard();}

// ACTION STUFF

\textbf{Action(a, foo, chunks)} ::= "\texttt{chunks}" \\
\textbf{ArgAction(a, chunks)} ::= "\texttt{chunks}" \\
\textbf{SemPred(p, chunks, failChunks)} ::= <<
setState(\texttt{p.stateNumber});
if (!\texttt{chunks}) throw new FailedPredicateException(this, <p.predicate><\texttt{if(failChunks)}, <\texttt{failChunks}><\texttt{elseif(p.msg)}, <\texttt{p.msg}><\texttt{endif});

\textbf{ExceptionClause(e, catchArg, catchAction)} ::= <<
catch (\texttt{catchArg}) {
\texttt{catchAction}
}

// lexer actions are not associated with model objects

\textbf{LexerSkipCommand()} ::= "\texttt{skip();}"
\textbf{LexerMoreCommand()} ::= "\texttt{more();}"
\textbf{LexerPopModeCommand()} ::= "\texttt{popMode();}"
\textbf{LexerTypeCommand(arg, grammar)} ::= "\texttt{.type = <arg>;}"
\textbf{LexerChannelCommand(arg, grammar)} ::= "\texttt{.channel = <arg>;}"
\textbf{LexerModeCommand(arg, grammar)} ::= "\texttt{.mode = <arg>;}"

\textbf{ActionText(t)} ::= "\texttt{\textless{}t.string\textgreater{}}"
\textbf{ActionTemplate(t)} ::= "\texttt{\textless{}t.st\textgreater{}}"
\textbf{ArgRef(a)} ::= "\texttt{.localctx.<a.name>}"
\textbf{LocalRef(a)} ::= "\texttt{.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_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

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

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

NonLocalAttrRef(s) ::= "((<s.ruleName; format="cap">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s,rhsChunks) ::= "((<s.ruleName; format="cap">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>;"

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

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<String> <rdecl.name> = new ArrayList<String> ()"

"public TerminalNode <t.name>() { return getToken(<parser.name>,<t.name>,0); }"
ContextTokenListGetterDecl(t) ::= "public List<TerminalNode> <t.name>() { return getTokens(<parser.name>,<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public List\<<r.ctxName\>> <r.name>() {
return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"
/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"
ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"
CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=""," ><endif> { 
<attrs:{a | public <a>;}; separator="\n"> 
<getters:{g | <g>}; separator="\n"> 
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) {
super(parent, invokingState);
}<endif> 
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }

@if(struct.provideCopyFrom) <!-- don't need copy unless we have subclasses ! -->
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
super.copyFrom(ctx);
<struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n"> }
@endif

<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
<dispatchMethods; separator="\n">
}

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
if ( listener instanceof <parser.grammarName>Listener )
  ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
}

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends T>)visitor).visit<struct.derivedFromName; format="cap">(this);
else return visitor.visitChildren(this);
}

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

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

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"
// used for left-recursive rules
recRuleAltPredicate(ruleName, opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnValueAction(src, name) ::= "$<name>=$<src>.<name>;
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

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

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = new <currentAltLabel>Context(new <ruleName>Context(_parentctx,
    _parentState));
  <if(label)>
    <if(isListLabel)>
      ((<currentAltLabel>Context)_localctx).<label>.add(_prevctx);
    <else>
      ((<currentAltLabel>Context)_localctx).<label> = _prevctx;
    </endif>
  </endif>
  pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
  _localctx = new <ctxName>Context(_localctx);
  _ctx = _localctx;
  _prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
  if (_parseListeners!=null ) triggerExitRuleEvent();
  _prevctx = _localctx;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
    package <lexerFile.genPackage>;
  </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.*;

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings( { "all", "warnings", "unchecked", "unused", "cast" } )
public class <lexer.name> extends <superClass; null="Lexer"> {
static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
public static final int
<lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator="", wrap, anchor>;
<if(lexer.channels)>
public static final int
<lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator="", wrap, anchor>;
<endif>
<rest(lexer.modes):{m| public static final int <m> = <i>;}; separator="\n">
public static String[] modeNames = {
<lexer.modes:{m | "<m>"}; separator="", wrap, anchor>
};

public static final String[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}; separator="", wrap, anchor>
};

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

<namedActions.members>

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

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

```java

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
public static final int
<lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator="", wrap, anchor>;
<if(lexer.channels)>
public static final int
<lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator="", wrap, anchor>;
<endif>
<rest(lexer.modes):{m| public static final int <m> = <i>;}; separator="\n">
public static String[] modeNames = {
<lexer.modes:{m | "<m>"}; separator="", wrap, anchor>
};

public static final String[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}; separator="", wrap, anchor>
};

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

<namedActions.members>

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

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>":
```
@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public String[] getModeNames() { return modeNames; }

@Override
public ATN getATN() { return _ATN; }
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}

SerializedATN(model) ::= <<
@if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> = 
"<segment; wrap={"+<\n><\t}>"}; separator="\n">;
public static final String _serializedATN = Utils.join(new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator="",\n}
}, "");
@if(1)
<! 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.runtime.DOTGenerator dot = new org.antlr.v4.runtime.DOTGenerator(null);>
<Simple.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));>
<Simple.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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*/

// 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
// ouse
// 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;
}
}
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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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;

@members {
  public static final int COMMENTS_CHANNEL = 2;

  public CommonTokenStream tokens; // track stream we push to; need for context info
  public boolean isLexerRule = false;

  public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) {
  }

  /**
   * scan backwards from current point in this.tokens list
   * looking for the start of the rule or subrule.
   * Return token or null if for some reason we can't find the start.
   */
  public Token getRuleOrSubruleStartToken() {
    if (tokens==null) return null;
    int i = tokens.index();
    int n = tokens.size();
    if (i>=n) i = n-1; // seems index == n as we lex
    while (i>=0 && i<n) {
      int ttype = tokens.get(i).getType();
      if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
        return tokens.get(i);
      }
      i--;
    }
    return null;
  }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
// fragment DOC_COMMENT : ;
COMMENT
@init {

Record the start line and offsets as if we need to report an unterminated comment, then we want to show the start of the comment we think is broken, not the end, where people will have to try and work it out themselves.

```java
int startLine = $line;
int offset = getCharPositionInLine();
}

// Eat the first character only, then see if we have a comment
// or something silly.

'/' // Comment introducer

('ANTLR')=> 'ANTLR' SRC
| ~(NLCHARS)*

| // Multi-line comment, which may be a documentation comment
| // if it starts /\* \* (note that we protect against accidentally recognizing a comment /\*\/* as a documentation comment
| // `\*`,
| { input.LA(2) != '/' }?=> `\*` { $type = DOC_COMMENT; }
| { true }?=> // Required to cover all alts with predicates

// Should we support embedded multiline comments here?

//

// Pick out end of multiline comment and exit the loop
// if we find it.

{ !(input.LA(1) == '*' && input.LA(2) == '/') }?

// Anything else other than the non-greedy match of the comment close sequence
//
```

// Look for the comment terminator, but if it is accidentally
// unterminated, then we will hit EOF, which will trigger the
// epsilon alt and hence we can issue an error message relative
// to the start of the unterminated multi-line comment

// */

// Unterminated comment!

//
{
    // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
    // offset, $pos, (Object)null);
}

// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment

//
{
    // TODO: Insert error message relative to comment start

//
}

// We do not wish to pass the comments in to the parser. If you are
// writing a formatter then you will want to preserve the comments off
// channel, but could just skip and save token space if not.

// $channel=COMMENTS_CHANNEL;
}
;

ARG_OR_CHARSET
options {k=1;}
:   {isLexerRule}?=> LEXER_CHAR_SET {stype=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:
    | '{'
       ARG_ACTION
    | ('"')=>ACTION_STRING_LITERAL
    | ('\')=>ACTION_CHAR_LITERAL
    | ~('[|]')
)*
'}

// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting { } is no additional overhead.
//
ACTION:
  :NESTED_ACTION
  ('?' {type = SEMPRED;}
   {WSNLCHARS* => WSNLCHARS* '=>' // v3 gated sempred
    {Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
     t.setLine(state.tokenStartLine);}});
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

//Action structure
//Many language targets use {} as block delimiters and so we
//must recursively match {} delimited blocks to balance the
//braces. Additionally, we must make some assumptions about
//literal string representation in the target language. We assume
//that they are delimited by ’ or " and so consume these
//in their own alts so as not to inadvertently match {}.
//This rule calls itself on matching a {

fragment
NESTED_ACTION
@init {

//Record the start line and offsets as if we need to report an
//unterminated block, then we want to show the start of the comment
//we think is broken, not the end, where people will have to try and work
//it out themselves.

int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {

//
'{'

//And now we can match one of a number of embedded
//elements within the action until we find a
//} that balances the opening {. If we do not find
//the balanced } then we will hit EOF and can issue
//an error message about the brace that we 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
| //
| ~(\"|'|\|/')

)*

(  // Correctly balanced closing brace
  //
  ')

| // Looks like have an imblanced {} block, report
| // with respect to the opening brace.
| //
| {  // TODO: Report imbalanced {}
  System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or is missing a ");
  }
)

;

// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier

// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.

//
OPTIONS : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS : 'channels' WSNLCHARS* '{' ;

IMPORT : 'import' ;
FRAGMENT : 'fragment' ;
LEXER : 'lexer' ;
PARSER : 'parser' ;
GRAMMAR : 'grammar' ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected' ;
PUBLIC : 'public' ;
PRIVATE : 'private' ;
RETURNS : 'returns' ;
LOCALS : 'locals' ;
THROWS : 'throws' ;
CATCH : 'catch' ;
FINALLY : 'finally' ;
MODE : 'mode' ;

// Punctuation

// Character sequences used as separators, delimiters, operators, etc
//

COLON : ':'
{
    // scan backwards, looking for a RULE_REF or TOKEN_REF.
    // which would indicate the start of a rule definition.
    // If we see a LPAREN, then it's the start of the subrule.
    // this.tokens is the token string we are pushing into, so
    // just loop backwards looking for a rule definition. Then
    // we set isLexerRule.
    Token t = getRuleOrSubruleStartToken();
    if ( t!=null ) {
        if ( t.getType()==RULE_REF ) isLexerRule = false;
        else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
        // else must be subrule; don't alter context
    }
}

COLONCOLON : '::' ;
COMMA       : ','                    ;
SEMI        : ':'                    ;
LPAREN      : '('                    ;
RPAREN      : ')'                    ;
RARROW      : '->'                   ;
LT          : '<'                    ;
GT          : '>'                    ;
ASSIGN      : '='                    ;
QUESTION    : '?'                    ;
SYNPRED     : '=>'
{
    Token t = new CommonToken(input, state.type, state.channel,
        state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;
STAR        : '*'                    ;
PLUS        : '+'                    ;
PLUS_ASSIGN : '+='                   ;
OR          : '|'                    ;
DOLLAR      : '$'                    ;
DOT         : '.'                    ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'                   ;
AT          : '@'                    ;
POUND       : '#'                    ;
NOT         : '~'                    ;
RBRACE      : '}'                    ;

/** Allow unicode rule/token names */
ID          :
a=NameStartChar NameChar*
{
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
}
;
fragment
NameChar    : NameStartChar
    | '0'..'9'
    | '
    | 'u00B7'
    | '\u0300'..'u036F'
    | '\u203F'..'u2040'
    ;
fragment
NameStartChar
  : 'A'..'Z' | 'a'..'z'
   | \u00C0..\u00D6
   | \u00D8..\u00F6
   | \u00F8..\u2FF
   | \u200C..\u200D
   | \u2C00..\u2FEF
   | \u3001..\uD7FF
   | \uF900..\uFDFE
   | \uFF00..\uFFFF
      ; // 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
// 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.

// 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_CHAR_LITERAL
  :
  \n  ((\n) => ACTION_ESC | ~\n)* \n
;
// 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 | ~(\"|\\t|\u0009) ) )* ( \
    ""
    | // Unterminated string literal
    
)
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.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
    |
    // An illegal escape sequence
    //
    
    |
    // Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
( ( ( ( HEX_DIGIT { hCount++; }

( ( HEX_DIGIT { hCount++; }
( HEX_DIGIT { hCount++; }
( // Four valid hex digits, we are good
  //
  HEX_DIGIT { hCount++; }

  // Three valid digits
  )

  // Two valid digits
  )

  // One valid digit
  )
  // No valid hex digits at all
  )

// Now check the digit count and issue an error if we need to
//
if (hCount != 4) {
  Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-1);
  t.setText(t.getText());
  t.setLine(input.getLine());
  t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
  grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
}
// ------------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : ( '\t' | '\n' | '\f' | '\r' )+
    { $channel=HIDDEN; }
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
  : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: \uFEFF {skip();}
;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
// ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
grammarError(ErrorType.SYNTAX_ERROR, t, msg);
state.syntaxErrors++;
skip();
}
;

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/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 |
/**
* 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)
/**
* 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
/**
 * This class provides an empty implementation of {link \<file.grammarName>Listener\},
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
open class \<file.grammarName>BaseListener\: \<file.grammarName>Listener { 
    public init() { \}
<file.listenerNames:{lname |
/**
 * \{\@inheritDoc\}\n *
 * \<p>The default implementation does nothing.\</p>
 */
open func enter\<lname; format="cap">(_ ctx: \<file.parserName>.\<lname; format="cap">Context) { \}
/**
 * \{\@inheritDoc\}\n *
 * \<p>The default implementation does nothing.\</p>
 */
open func exit\<lname; format="cap">(_ ctx: \<file.parserName>.\<lname; format="cap">Context) { \});
separator="\n">
/**
 * \{\@inheritDoc\}\n *
 * \<p>The default implementation does nothing.\</p>
 */
open func enterEveryRule(_ ctx: ParserRuleContext) { }
/**
 * \{\@inheritDoc\}\n *
 * \<p>The default implementation does nothing.\</p>
 */
open func exitEveryRule(_ ctx: ParserRuleContext) { }
/**
 * \{\@inheritDoc\}\n *
 * \<p>The default implementation does nothing.\</p>
 */
open func visitTerminal(_ node: TerminalNode) { }
/**
 * \{\@inheritDoc\}\n *
 * \<p>The default implementation does nothing.\</p>
 */
open func visitErrorNode(_ node: ErrorNode) {}
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 @link Void for operations with no return type.

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

/**
 * The default implementation returns the result of calling
 * @link #visitChildren() on {code ctx};</p>
 */
open func visit(_ ctx: Context) -> T? { return visitChildren(ctx) }

[fileHeader(grammarFileName, ANTLRVersion)]

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

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <parser.name>._ATN.getNumberOfDecisions()
    for i in 0..<length {
        decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
}()
public static let ruleNames: [String] = [
<parser.ruleNames:[r | "<r>"]; separator="", wrap, anchor>
]

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

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

override
open func getRuleNames() -> [String] { return <parser.name>.ruleNames }

override
open func getSerializedATN() -> String { return <parser.name>._serializedATN }

override
open func getATN() -> ATN { return <parser.name>._ATN }

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

<if(sempredFuncs)>
override
open func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
default: return true
}

<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) {
<recog.actionFuncs.values:{f|
case <f.ruleIndex>:
<f.name>_action((_localctx as <f.ctxType>?), actionIndex)
}; separator="\n">;
default: break
}
}@actionFuncs.values; separator="\n"
@endif>
@if(sempredFuncs)
override
open func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool{
switch (ruleIndex) {
@endif>

<recog.semPreds.values:{f|
case <f.ruleIndex>: return try <f.name>_semPred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n"> default: return true
}

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

parser_ctor(p) ::= <<

open override func getVocabulary() -> Vocabulary {
  return <p.name>.VOCABULARY
}

public override init(_input:TokenStream) throws {
  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">
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()<_ctx, 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.(1)>]; 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>(_<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">
deferr {
<finallyAction>
try! unrollRecursionContexts(_parentctx)
}
do {
@if(currentRule.hasLookaheadBlock)
var _alt: Int
@endif
<code>
<postamble; separator="\n">
@namedActions.after
catch ANTLRException.recognition(let re) {
_localctx.exception = re
_errHandler.reportError(self, re)
try _errHandler.recover(self, re)
}
return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<<
@if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);
@endif
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
(CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...))
>>>
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>) {

Open Source Used In imicampaign 6.2.0  5344
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
<iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
<alts; separator="\n">
setState(<choice.stateNumber>); <! loopback/exit decision !>
try _errHandler.sync(self)
<iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)> <labelref(choice.label)> = try _input.LT(1) </if>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
<alt>
break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1</if>
<alt>
break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(choice.stateNumber)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,choice.decision>._ctx)
while (_alt != choice.exitAlt & _alt != ATN.INVALID_ALT_NUMBER) {
if (_alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(choice.loopBackStateNumber)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,choice.decision>._ctx)
}
>>

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

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

ThrowNoViableAlt(t) ::= "throw try ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)>else><bitsetInlineComparison(s, bits)>endif}>; separator=" || ">
//closure
{ () -> Bool in
  <if(rest(s.bitsets))>var<else>let<endif>
  testSet: Bool = <first(s.bitsets):{bits |
  <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)>else><bitsetInlineComparison(s, bits)>endif}> }
  <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)>else><bitsetInlineComparison(s, bits)>endif}>; separator="\n"
return testSet
}()
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

```
testShiftInRange(shiftAmount) ::= <<
    ((<shiftAmount>) & ~0x3f) == 0
>>

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

    \{ () \-> Bool in
        <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>)>)!>
        <\var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)>!
        <! let test1: Int64 = (Int64(1) \<\ temp)!>
        <! let test2: Int64 = (Int64(1) \<\ test1)!>
        <! let test2: Int64 = (Int64(1) \<\ test2)!>
        <! let test2: Int64 = (Int64(1) \<\ test2)!>
        <\var test2: Int64 = <first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>!>
        <\var test2: Int64 = <first(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>!>
        <\rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>!
    \}
    let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=",">!
    return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
\()
```

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

parserName(ttype) ::= <%
    <parser.name>.Tokens.<ttype>.rawValue
%
offsetShift(shiftAmount, offset) ::= <%
    <if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%

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

```
try {
let assignmentValue = try
<r.name>({<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>})
<r.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">}
<else>try
<r.name>({<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>})<endif>
>>

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<r.labels>m.labels:{l | <labelref(l)> = } try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
<r.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) ::= <<
setState(<w.stateNumber>)
<r.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 $tLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? (<ctx(t)>.<t.label>!.getText()! : ")")" TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? (<ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? (<ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> != nil ? (<ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? (<ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()) : 0)"
return getRuleContext(<r.ctxName>.self,i)
}

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g., *
*r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers, superClass={ParserRuleContext}) ::= <<
open class<br> <struct.name>:<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>,
<interfaces; separator="", ""><endif> {<if(interfaces)> <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">

  <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
  }
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n”>
}

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public final class <struct.name>: <currentRule.name; format="cap">Context {  
<attrs:{a | public var <a>}; separator="\n">  
<getters:{g | <g>}; separator="\n">  
public init(_ctx: <currentRule.name; format="cap">Context) {  
super.init()  
copyFrom(ctx)  
}  
<dispatchMethods; separator="\n">  
}  
}

ListenerDispatchMethod(method) ::= <<  
override  
open func <if(method.isEnter)>enter<else>exit<endif>Rule(_listener: ParseTreeListener) {  
if listener is <parser.grammarName>Listener {  
(listener as!  
<parser.grammarName>Listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)  
}  
}  
>>

VisitorDispatchMethod(method) ::= <<  
override  
open func accept\T{(_visitor: ParseTreeVisitor\T\}) -> T? {  
if visitor is <parser.grammarName>Visitor {  
return (visitor as! <parser.grammarName>Visitor\T\).visit<struct.derivedFromName; format="cap">(self)  
} else if visitor is <parser.grammarName>BaseVisitor {  
return (visitor as! <parser.grammarName>BaseVisitor\T\).visit<struct.derivedFromName; format="cap">(self)  
} else {  
return visitor.visitChildren(self)  
}  
}  
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

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

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"
recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
  _localctx = <ctxName>Context(_parentctx, _parentState);
  <if(label)>
  <if(isListLabel)>
  _localctx.<label>.append(_prevctx)
  <else>
  _localctx.<label> = _prevctx
  <endif>
  <endif>
  <if(label)>_localctx.<label> = _prevctx;<endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = <currentAltLabel; format="cap">Context(<ruleName; format="cap">Context(_parentctx,
  _parentState))
  <if(label)>
  <if(isListLabel)>
  (_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
  <else>
  (_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
  <endif>
  <endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
  _localctx = <ctxName>Context(_localctx)
  _ctx = _localctx
  _prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
  if _parseListeners != nil {
    try triggerExitRuleEvent()
  }
  _prevctx = _localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
    <!package <lexerFile.genPackage>;!>
  <endif>
  <namedActions.header>
  import Actions.header

---

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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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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(gramarFileName, 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">
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">
</nd>

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)
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs, namedActions,finallyAction,postamble) ::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="n">

def <currentRule.name>(self,<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

locctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state.<currentRule.args:{a | , <a.name>}>)
self.enterRule(locctx, <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:
    locctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
<endif>
finally:
    <finallyAction>
    self.exitRule()
return locctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs, namedActions,finallyAction,postamble) ::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):

_parentctx = self._ctx
_parentState = self.state
locctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState.<args:{a | , <a.name>}>)
_prevctx = locctx
_startState = <currentRule.startState>
self.enterRecursionRule(locctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
<namedActions.init>
<locals; separator="n">
try:
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">

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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)
l_a_ = self._interp.adaptivePredict(self._input, choice.decision, self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>: 
   <alt>
}; separator="\nel">

>>

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

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==<i><if(!choice.ast.greedy)>+1<endif>: 
      <alts>
      else: 
         <error>
         self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
         self._errHandler.sync(self)
         _alt = self._interp.adaptivePredict(self._input, choice.decision, self._ctx)
Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

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

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

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) and ((1 < offsetShiftVar(s.varName, bits.shift)) and (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:[1 | <labelref(l)>]

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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) ::= "<st.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_cxt(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_cxt(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"
NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

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

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType() type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

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

ContextTokenListIndexedGetterDecl(t) ::= <<<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

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

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

ContextRuleListIndexedGetterDecl(r) ::= <<<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>, i)
return self.getTypedRuleContext(<parser.name>,<r.ctxName>,i)

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= ".<tokenName>"
ImplicitRuleLabel(ruleName) ::= ".<ruleName>"
ImplicitSetLabel(id) ::= ".tset<id>"
ListLabelName(label) ::= ".<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
    <a.name>if(a.type):<a.type><endif>=None}>):
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | self.<a.name> = self.<a.type>} separator="\n"=
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>} separator="\n"=

<getters:{g | <g>}; 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)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name}> separator="\n"=

<endif>

<dispatchMethods; separator="\n">"

<extensionMembers; separator="\n">"
def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name; format="cap">Context
    super().__init__(parser)
    <attrs:{a | <a>}; separator="\n">self.copyFrom(ctx)
    <getters:{g | <g>}; separator="\n"> <dispatchMethods; separator="\n"> >>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
    >>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)
    >>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

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

/** For any action chunk, what is correctly-typed context struct ptr? */
ctxt(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>
  self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
  >>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

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

<atn>
class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

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

<lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
modeNames = [ <lexer.modes:{m | "<m>"}; separator=" ", wrap, anchor> ]

literalNames = [ "\INVALID",
    <lexer.literalNames:{t | <t>}; separator=" ", wrap, anchor> ]

symbolicNames = [ "\INVALID",
    <lexer.symbolicNames:{t | <t>}; separator=" ", wrap, anchor> ]

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

grammarFileName = "<lexer.grammarFileName>"

def __init__(self, input=None):
    super().__init__(input)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

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

>>

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

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap="\n"        buf.write(" >")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */

 initView(typeName) ::= <<<
<javaTypeInitMap.(typeName)>

>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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*/

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::= <<
  <ruleName> <if(userRetvals)> returns [<userRetvals>] </endif>
  : ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n  | ">
    )
  ( <opAlts; separator="\n                 | ">
*
recRuleAlt(alt, precOption, opPrec, pred) ::= <<
  {<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

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

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

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

wantsSingleLineMessage() ::= "false"

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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 format that mimicks GCC output.
*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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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 .+))? (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);
} 
:^( 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, $label, invert);}
range[label] {somos = range.somos;}
|^ (DOT ID terminal[label])
|^ (DOT ID ruleref[label])
  | ^ (WILDCARD .) {somos = controller.wildcard($WILDCARD, $label);}  
  | WILDCARD {somos = controller.wildcard($WILDCARD, $label);} 
  | terminal[label] {somos = $terminal.somos;}
  | ruleref[label] {somos = $ruleref.somos;}
| blockSet[label, invert] {somos = $blockSet.somos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> somos]
  :^ (RULE_REF ARG_ACTION? elementOptions?) {somos = controller.ruleRef($RULE_REF, $label, $ARG_ACTION);}
  
;

range[GrammarAST label] returns [List<SrcOp> somos]
  :^ (RANGE a=STRING_LITERAL b=STRING_LITERAL)
  
;

terminal[GrammarAST label] returns [List<SrcOp> somos]
  :^ (STRING_LITERAL .) {somos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL {somos = controller.stringRef($STRING_LITERAL, $label);}
  | ^ (TOKEN_REF ARG_ACTION .) {somos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | TOKEN_REF {somos = controller.tokenRef($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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* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/NotAST.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/RuleRefAST.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/ActionSplitterListener.java
jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/tool/Grammar.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/TokenListDecl.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Loop.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/ContextGetterDecl.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Lexer.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/RuleContext.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Lexer.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/PlusBlockAST.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/AttributeResolver.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/RuleElementAST.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/DefaultOutputModelFactory.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/TargetSwiftTarget.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1237463103_1638811348.19/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
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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=" ">
  <out:{f | <f> : <grammarFileName>; separator=" ">
>>

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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) {
ErrorMessage 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) { }

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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 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 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 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 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 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 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);
}
optionValue returns [String v]
@init {
enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
}

delegateGrammars
@init {
enterDelegateGrammars($start);
}
@after {
exitDelegateGrammars($start);
}

delegateGrammar
@init {
enterDelegateGrammar($start);
}
@after {
exitDelegateGrammar($start);
}

tokensSpec
@init {
enterTokensSpec($start);
}
@after {
exitTokensSpec($start);
ARG_ACTION?
    ret=ruleReturns?
    thr=throwsSpec?
    loc=locals?
    (opts=optionsSpec
    | a=ruleAction {actions.add(a.start);}
    )*
    {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
    $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
    $thr.start, $opts.start,
    $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
    actions, (GrammarAST)input.LT(1));}
    ruleBlock exceptionGroup
    {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
    ;

exceptionGroup
    @init { enterExceptionGroup($start); }
    @after { exitExceptionGroup($start); }
    : exceptionHandler* finallyClause?
    ;

exceptionHandler
    @init { enterExceptionHandler($start); }
    @after { exitExceptionHandler($start); }
    : ^(CATCH ARG_ACTION ACTION) {ruleCatch(ARG_ACTION, (ActionAST)$ACTION);}
    ;

finallyClause
    @init { enterFinallyClause($start); }
    @after { exitFinallyClause($start); }
    : ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
    ;
locals
@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}:
\^(LOCALS ARG\_ACTION)
;

ruleReturns
@init {
  enterRuleReturns($start);
}
@after {
  exitRuleReturns($start);
}:
\^(RETURNS ARG\_ACTION)
;

throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}:
\^(THROWS ID+)
;

ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}:
\^(AT ID ACTION)
;

ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}:
PUBLIC
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)
| SEMPRE
| ^(SEMPRED elementOptions)
;

alternative
@init {
enterAlternative((AltAST)$start);
discoverAlt((AltAST)$start);
}
@after {
finishAlt((AltAST)$start);
exitAlternative((AltAST)$start);
}
:^{ALT elementOptions? element+}
|^ {ALT elementOptions? EPSILON}
;

lexerCommand
@init {
enterLexerCommand($start);
}
@after {
exitLexerCommand($start);
}
:^{LEXER_ACTION_CALL ID lexerCommandExpr}
       {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
|ID
       {lexerCommand(currentOuterAltNumber, $ID);}
;

lexerCommandExpr
@init {
enterLexerCommandExpr($start);
}
@after {
exitLexerCommandExpr($start);
}
:^ID
|INT
;

element
@init {
enterElement($start);
@after {
exitElement($start);
}
:labeledElement
|atom
|subrule
  | ACTION {actionInAlt((ActionAST)$ACTION);}
  | SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
  | ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
  | ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
|^^(NOT blockSet)
|^^(NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
|atom
|^^(NOT blockSet)
|^^(NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
:^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
:^^(blockSuffix block)
|block
;
lexerSubrule
@init {
enterLexerSubrule($start);
}
@after {
exitLexerSubrule($start);
}
::^(blockSuffix lexerBlock)
| lexerBlock
;

blockSuffix
@init {
enterBlockSuffix($start);
}
@after {
exitBlockSuffix($start);
}
:: ebnfSuffix
;

ebnfSuffix
@init {
enterEbnfSuffix($start);
}
@after {
exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
enterAtom($start);
}
@after {
exitAtom($start);
}
::^(DOT ID terminal)
|^(DOT ID ruleref)
|^(WILDCARD elementOptions){wildcardRef($WILDCARD);}
| WILDCARD{wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
:^{(SET setElement+)}
;

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
:^{(STRING_LITERAL elementOptions)  {stringRef((TerminalAST)$STRING_LITERAL);}
|^(TOKEN_REF elementOptions)  {tokenRef((TerminalAST)$TOKEN_REF);}
|STRING_LITERAL  {stringRef((TerminalAST)$STRING_LITERAL);}
|TOKEN_REF  {tokenRef((TerminalAST)$TOKEN_REF);}
|^\(RANGE a=STRING_LITERAL b=STRING_LITERAL\)
{
stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}
|  LEXER_CHAR_SET
;

block
@init {
enterBlock($start);
}
@after {
exitBlock($start);
}
:^{(BLOCK optionsSpec? ruleAction* ACTION? alternative+)}
;

ruleref
@init {
enterRuleref($start);
}
@after {
exitRuleref($start);
}
:^\(RULE_REF arg=ARG_ACTION? elementOptions?\) 
{ 
ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

range
@init {
enterRange($start);
}
@after {
exitRange($start);
}
:^\(RANGE STRING_LITERAL STRING_LITERAL\)
;

terminal
@init {
enterTerminal($start);
}
@after {
exitTerminal($start);
}
:^\(STRING_LITERAL elementOptions\)
{stringRef((TerminalAST)$STRING_LITERAL);}
[STRING_LITERAL \{stringRef((TerminalAST)$STRING_LITERAL);\}
|^\(TOKEN_REF elementOptions\){tokenRef((TerminalAST)$TOKEN_REF);}
][TOKEN_REF \{tokenRef((TerminalAST)$TOKEN_REF);\}
;

elementOptions
@init {
enterElementOptions($start);
}
@after {
exitElementOptions($start);
}
:^\(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()][*]\)
;
elementOption[GrammarASTWithOptions t]
@init {
enterElementOption($start);
}
@after {
exitElementOption($start);
}
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1.692 apache-poi-ooxml-schemas 3.8-beta4

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1.11.172

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1.732 aws-java-sdk-for-aws-marketplace-entitlement 1.11.155

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

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1.736 jackson-xc 2.10.0

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1.739 aws-java-sdk-for-aws-organizations

1.11.172

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1.742 aws-java-sdk-for-aws-app-mesh

1.11.508

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1.743 aws-java-sdk-for-amazon-workdocs

1.11.155

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1.744 jackson-core 2.12.4
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1.746 junit-platform-junit-platform-engine

1.7.2

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

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$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp $

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/*

package org.jdom;

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 *
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
 * @author  Brett McLaughlin
 * @author  Jason Hunter
 */

public class Comment extends Content {

    private static final String CVS_ID =
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 "$;

    /** Text of the <code>Comment</code> */
    protected String text;

    /**
     * Default, no-args constructor for implementations to use if needed.
     */
    protected Comment() {} 

    /**
     * This creates the comment with the supplied text.
     *
     * @param text <code>String</code> content of comment.
     */
    public Comment(String text) {
setText(text);
}

/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 *
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the Comment.
 *
 * @return String - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the Comment.
 *
 * @param text String text for comment.
 * @return Comment - 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 String representation of the Comment, suitable for debugging. If the XML
 * representation of the Comment is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment)}
 * should be used.
 *
* @return <code>String</code> - information about the
*
<code>Attribute</code>
*/
public String toString() {
return new StringBuffer()
.append("[Comment: ")
.append(new org.jdom.output.XMLOutputter().outputString(this))
.append("]")
.toString();
}
}

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1.755 aws-java-sdk-for-aws-lex 1.11.257

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* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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1.790 aws-java-sdk-secretsmanager 1.11.508

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* permissions 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>
* </ul>
* </li>
* </ul>
* </li>
* </ul>
* </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>
* </ul>
* </li>
* </ul>
* </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.
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.

Related operations

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>`.

* </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>
* </li>
* </ul>

* @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:

* </p>
* </ul>
* </li>
* </li>
* </p>

* You tried to perform the operation on a secret that's currently marked deleted.

* </p>
* </li>
* </li>
* </p>

* 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.

* </p>
* </li>
* </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</a> of a Customer Master Key</p>

@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 AWS.SecretsManager.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>
  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>

<ul>
  <li>
    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.
  </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.
  </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>
* </ul>
* 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>
* </ul>
* </note>
* </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 kms:GenerateDataKey and kms:Decrypt operations.
* </p>
* </li>
* </ul>
* <p> * <b>Minimum permissions</b> * </p> * To run this command, you must have the following permissions: * </p> * <ul> * <li> * secretsmanager:PutSecretValue * </li> * </ul> * Related operations * </p> * To retrieve the encrypted value you store in the version of a secret, use <a>GetSecretValue</a>. * </p> * </ul> * To create a secret, use <a>CreateSecret</a>. * </p> * </li> * </ul> * To get the details for a secret, use <a>DescribeSecret</a>. * </p> * </li> * </ul> * To list the versions attached to a secret, use <a>ListSecretVersionIds</a>. * </p> * </li> * </ul> * @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.</p>
*   </p>
*   Possible causes:
*   </p>
*   </ul>
*   <li>
*   <p>
*       You tried to perform the operation on a secret that's currently marked deleted.
*   </p>
*   </li>
*   <li>
*   <p>
*       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.
*   </p>
*   </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
*   </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
* <i>either</i> <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>
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.
  *
  */
  */
  */
  */
  */
  */
  */
  */
  <p>
  <b>Minimum permissions</b>
  */
  */
  */
  */
  */
  */
  <li>
  * secretsmanager:UpdateSecret
  * </li>
  */
  */
  */
  */
  */
  */
  <li>
  * 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.
  * </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>
  */
  */
  */
  */
  */
  <li>
  * Related operations</li>
  */
  */
  */
  */
  */
  <li>
  * To create a new secret, use <a>CreateSecret</a>.
  * </li>
  */
  */
  */
  */
  <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>.
  *

* @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.
  *
  * 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 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.

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.

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 kms:GenerateDataKey and kms:Decrypt operations.
* </p>
* </li>
* </ul>
* </note>
* </p>
* </li>
* <li>
* <p>
* Minimum permissions
* </p>
* </li>
* </ul>
* </p>
* To run this command, you must have the following permissions:
* </p>
* <ul>
* <li>
* <p>
* secretsmanager:CreateSecret
* `<p>`
* `<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>`
* `<li>`
* `<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>`
* `<b>` Related operations `<b>`
* `<p>`
* `<ul>`
* `<li>`
* `<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>.
* 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>`
* `<ul>`

* @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>`
* `<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>`
* `<ul>`
* `<li>`

* 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>`

* 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>`
* `<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>
* </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.
* </p>
* </li>
* </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 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.
* </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>
* </ul>
* <note>
* <p>
* <b>Minimum permissions</b>
* </p>
* <p>
* To run this command, you must have the following permissions:
* </p>
* <ul>
* <li>
* secretsmanager:PutSecretValue
* </li>
* <li>
* 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>
* </ul>
* <p>
* <b>Related operations</b>
* </p>
* <ul>
* <li>
* To retrieve the encrypted value you store in the version of a secret, use &lt;a&gt;GetSecretValue&lt;/a&gt;.
* </li>
* <li>
* To create a secret, use &lt;a&gt;CreateSecret&lt;/a&gt;.
* </li>
* <li>
* To get the details for a secret, use &lt;a&gt;DescribeSecret&lt;/a&gt;.
* </li>
* <li>
* To list the versions attached to a secret, use &lt;a&gt;ListSecretVersionIds&lt;/a&gt;.
* </li>
* </ul>
* @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 <i>or</i> <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>
 * <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>
 * </ul>
 * <ul>
 * <li>
 * 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.
 * </li>
 * </ul>
 * <ul>
 * <li>
 * 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 `kms:GenerateDataKey` and `kms:Decrypt` operations.

* </p>
* </li>
* </li>
* </p>
* `<b>Minimum permissions</b>`

* To run this command, you must have the following permissions:

* </p>
* </ul>
* </li>
* </li>
* </p>
* secretsmanager:UpdateSecret

* </p>
* </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>
* </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>
Related operations

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>`.

```java
@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/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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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Certificate.java
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* parquet-hadoop's UnmaterializableRecordCounter.java includes code from ElephantBird's LzoRecordReader.java

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**1.820 apache-regexp 1.3**

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1.821 guava 20.0

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1.11.555

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.834  aws-java-sdk-for-aws-waf 1.11.155

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1.840 aws-java-sdk-for-amazon-api-gateway

1.11.257

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1.850 aws-java-sdk-for-aws-application-auto-scaling 1.11.555

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1.861 aws-java-sdk-for-aws-marketplace-metering-service 1.11.555

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1.862 apache-httpcomponents-core 4.4.9

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

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1.893 aws-java-sdk-for-aws-health-apis-and-notifications 1.11.172

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1.11.508

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1.906 msal4j 1.3.0
1.906.1 Available under license :
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// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
/**
 * Object containing parameters for silent requests. Can be used as parameter to
 * *[ @link PublicClientApplication#acquireTokenSilently(SilentParameters)] or to
 * *[ @link ConfidentialClientApplication#acquireTokenSilently(SilentParameters)]
 */

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/SilentParameters.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Built-By: VssAdministrator
Created-By: Apache Maven
Build-Jdk: 1.8.0_102

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java
SHA-256-Digest: kB686cZB43KFfYGCyggmnn9Lf7cH72/r8EO2JjABN8=
Name: com/microsoft/aad/msal4j/DefaultHttpClient.java
SHA-256-Digest: CNE/eeBpZczySXYSx+Fqcw/a/hV4xf8EtDmi2VKuzk4=

Name: com/microsoft/aad/msal4j/ErrorResponse.java
SHA-256-Digest: T5H0wPAT1M+zMbfd88KfEgBkZx+cTAws62n7xJ+jZtY=

Name: com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java
SHA-256-Digest: arnL2lMA8e1i31O6Q1LrKrUt5uXyXdfX14RwBRCWt0=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessAspect.java
SHA-256-Digest: Jf/LINJ5AAZuOBnapr7fVRw0AMukiNms4YI6z60hX5c=

Name: com/microsoft/aad/msal4j/ServiceBundle.java
SHA-256-Digest: w0dVeDI9fY09wcDgkZquXM8yq8dwjAuvaHQiH4tDUQ=

Name: com/microsoft/aad/msal4j/IPublicClientApplication.java
SHA-256-Digest: l9kyEXq08BAcMLdPNnjEEd1qESLCU3+N75fT2/lBw=

Name: com/microsoft/aad/msal4j/Authority.java
SHA-256-Digest: OTy7ahErCtAvdXP0rpD71/ccWkna4owMnqLrAbinx=

Name: com/microsoft/aad/msal4j/IHttpResponse.java
SHA-256-Digest: HU5QDXwQ3EC+Mp/xKbqnWXxNaZrtQeA8Rq8iAzw7nVo=

Name: com/microsoft/aad/msal4j/HttpMethod.java
SHA-256-Digest: avXBdeLGDX8RJ0fITIoq/CyXwVU56J2W2uLCHXcrwFU=

Name: com/microsoft/aad/msal4j/ITelemetryManager.java
SHA-256-Digest: lIjdshNsJrH6NC7vCw7Pfa3a2oTWKneLzsc0wUpNk78=

Name: com/microsoft/aad/msal4j/IClientApplicationBase.java
SHA-256-Digest: rs+v3QXgW0p0i9I87i3yAuNv09iYxCXZ0B1fjZa3XU=

Name: com/microsoft/aad/msal4j/ITelemetryManager.java
SHA-256-Digest: b1xmI9YH1nTrMx19yG441frOCdyyGzMYoMVej0KfyZ4=

Name: com/microsoft/aad/msal4j/ApiEvent.java
SHA-256-Digest: T170tTfEIOCu7zDp2Au5c7BdvIwwDvoqVmd9x8HTv=

Name: com/microsoft/aad/msal4j/AADAuthority.java
SHA-256-Digest: Qg0vyh6AdSD90VMChX2pkQfS6nYeRLxKq01ZEUbph70=

Name: com/microsoft/aad/msal4j/HttpResponse.java
SHA-256-Digest: tkTcuEFGEHrg3MkempsD/DBoVtHpoSY6ltwCHB1zgU0=

Name: com/microsoft/aad/msal4j/AuthenticationResultSupplier.java
SHA-256-Digest: aJCI+s0bjSdtYJH4FrMOt9y/Xm7Jdv14pp0jofCJ1H8=
Name: com/microsoft/aad/msal4j/WSTrustResponse.java
SHA-256-Digest: iKpS4Lkh+Jng58WEA75RqRjY3CZzTaquoCDTusMt6QS8=

Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java
SHA-256-Digest: /QW4Vh+i2XfqeSeFMZNI1Gg24/wtSfiRkw2c7xuqFFs=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthorizationGrant.java
SHA-256-Digest: nUcuZc+zE2T8kZJI0+NhBZOjJxr5iKH2eNyBK0ostM=

Name: com/microsoft/aad/msal4j/TokenRequestExecutor.java
SHA-256-Digest: mtlvUGV1Eqd2O0++v/+cZC4kp0vk7t+7wJ8yv0RBqbg=

Name: com/microsoft/aad/msal4j/UserDiscoveryResponse.java
SHA-256-Digest: edTDT3/qImwo65b7CroeWBTFoFkgFxhey12j5cmKtE0=

Name: com/microsoft/aad/msal4j/AuthorityType.java
SHA-256-Digest: NsOmf2XgimzbZZ3fucTCOoI2pRj/Kh2E78QfkZZdqQ=

Name: com/microsoft/aad/msal4j/AuthorizationCodeParameters.java
SHA-256-Digest: sRvmZygGH171HIwwxFXeeJeor3c+21my3wTXFGN4E=

Name: com/microsoft/aad/msal4j/IUserAssertion.java
SHA-256-Digest: HHcmDjJXLTMN0d6kWX7A3li/zGhvWKOaLQPmuGRe=

Name: com/microsoft/aad/msal4j/Constants.java
SHA-256-Digest: i1O8SEMkUCUwTlSM36y8Ag4K2J8VC1NBbN+7qYRb9Q=

Name: com/microsoft/aad/msal4j/UserNamePasswordRequest.java
SHA-256-Digest: +pSRXUhH79j+UslWxb0jkWuOxEL8Qd/nIVx3tyMTWzM=

Name: com/microsoft/aad/msal4j/AadInstanceDiscoveryResponse.java
SHA-256-Digest: 2sPbpy/ZrSjK8EW352QmBC1OqpaQT8vcnZ30KnNDCNhY=

Name: com/microsoft/aad/msal4j/ClientCredentialFactory.java
SHA-256-Digest: puFfRlXASk9mGFulRIZ41rmOcjhv6rAbPwb9iKgCoo=

Name: com/microsoft/aad/msal4j/UserDiscoveryRequest.java
SHA-256-Digest: df45mjE00xJeBR4+MhXwYmJPvyuhOuDgyYnhZADutjw=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java
SHA-256-Digest: schyri61qVoxOGb4wvBmqySCMjXe405yfifEbdAoCl=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.java
SHA-256-Digest: 86q02C5WOCluQ5gaKjppcke5Lh/ErkJ5G63IVkZJBw=

Name: com/microsoft/aad/msal4j/CredentialTypeEnum.java

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SHA-256-Digest: bBhBXh+nc9GWc6VQs0hbJUTS9SG3pOIGSDS++gwmjsw=

Name: com/microsoft/aad/msal4j/UserAssertion.java
SHA-256-Digest: 9AcDeCV9cNiFAtB0c1yD4f6XTVWQfTCmweV/v/C+TJY=

Name: com/microsoft/aad/msal4j/AcquireTokenSilentSupplier.java
SHA-256-Digest: oj1A1lxj38AJM9gRF6q26sfjgGz3IH0wHXqMEpxIAJQ=

Name: com/microsoft/aad/msal4j/IConfidentialClientApplication.java
SHA-256-Digest: 4ZB/TgYqIxRPJDZkDqGEZIEjzizIT+HGbbC0t+InKo=

Name: com/microsoft/aad/msal4j/ITelemetry.java
SHA-256-Digest: 2qFxtvOE0gO08L9uMShvdG9ALQWGHAARFZNZ4mkNnATE=

Name: com/microsoft/aad/msal4j/IHttpClient.java
SHA-256-Digest: A5OdJE5u1B17KGMVNgUl4k8AcJThpFynFXAaFRwpTs=

Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java
SHA-256-Digest: BPyFPbST3D3hxdGE+O9hkJWAmY6cSDBqQSGhSH7E=

Name: com/microsoft/aad/msal4j/WSTrustVersion.java
SHA-256-Digest: d3ncPiwKM9a1wOeLmwnwfiA/i9ztfQLYYan3sYTuGxg=

Name: com/microsoft/aad/msal4j/BindingPolicy.java
SHA-256-Digest: VVxiBKDU5o/FOseEkpn7TD56ti2kTDT7tuN2Qm5aWds=

Name: com/microsoft/aad/msal4j/HttpEvent.java
SHA-256-Digest: JQm4WoOhxhXG1WtDKzJBDfM6/Ex+4Ut1rvVbOmt/58=

Name: com/microsoft/aad/msal4j/HttpRequest.java
SHA-256-Digest: RSA2jtwMqhFRhvk169YMMybMdPoog79AQ+D5B1UsDyM=

Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java
SHA-256-Digest: 59h4IIUKn57oDfWQ4DymnoOxwqECibvTo65KtMeA0=

Name: com/microsoft/aad/msal4j/AccountCacheEntity.java
SHA-256-Digest: HOGWl2xSu+92CEmyIJy03ADcyCAwmIpju+ZHxTXgyU=

Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java
SHA-256-Digest: enDZE+VpJHih93wQC2Su+Qn9NRd4cwnqJiLz/fLoBA=

Name: com/microsoft/aad/msal4j/IAccount.java
SHA-256-Digest: cbqQg0/d88ST8htVXXW/KDtv805giC1wAluPQ9JQw=

Name: com/microsoft/aad/msal4j/LogHelper.java
Name: com/microsoft/aad/msal4j/ClientCredentialParameters.java
SHA-256-Digest: 1CN5o6/4Q1dd3zN3vI7JZI+9H21BnJT37nxCxK6YWw=

Name: com/microsoft/aad/msal4j/HttpHeaders.java
SHA-256-Digest: VkTC+He/rNplIlNbxG6z0Vd7rkiA9h09UXxPjFOA=

Name: com/microsoft/aad/msal4j/ClientApplicationBase.java
SHA-256-Digest: ZWS+6YsHbsWKrNjvJG+IjqwKYv8oRmKnnZJpEMS0z8w=

Name: com/microsoft/aad/msal4j/OAuthAuthorizationGrant.java
SHA-256-Digest: y1MZ/ZFH0ocwoglpkiik3F6YiKRNNNet+WLyVjVNTnY=

Name: com/microsoft/aad/msal4j/MsalException.java
SHA-256-Digest: ciXO+tvNgW2T/DBGToN5xhQfiO9z5uYrBo+sm5v8qk=

Name: com/microsoft/aad/msal4j/ClientAuthenticationPost.java
SHA-256-Digest: xnAu4zduJCwasi1jDTHUyyLPyHI0xJvd0VuRffxpI=

Name: com/microsoft/aad/msal4j/MsalRequest.java
SHA-256-Digest: fARziMI0rcRHfwnRZx6OwyD4mqIwlkLU3JSbRmnO7Y=

Name: com/microsoft/aad/msal4j/AuthenticationErrorCode.java
SHA-256-Digest: 1BSP/ElItXRxYNqOqdAdW0r4+eJVEYr2RmHxu3AQ6nH8=

Name: com/microsoft/aad/msal4j/Account.java
SHA-256-Digest: w6RisXctg8SY2umEM1t8TqhnL0beFq0gmq+444PRi1Q=

Name: com/microsoft/aad/msal4j/ADFSAuthority.java
SHA-256-Digest: gEZou9BsOe0+RXr2PnkwOe+CudGiDNzsNBmCj/wDRDE=

Name: com/microsoft/aad/msal4j/ITokenCache.java
SHA-256-Digest: cd8fP5DIfhFCiPm1LKjbjRjL317Et6ASkTHucA4K8A=

Name: com/microsoft/aad/msal4j/RefreshTokenParameters.java
SHA-256-Digest: dvnVgUijURVWWw2+pTyygjMyUbIfcYPgFL8RLy+CBQ=

Name: com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java
SHA-256-Digest: xSlgnwb01cn703DyTD30Y49C3so6lKFKDhuBzsh8=

Name: com/microsoft/aad/msal4j/EventKey.java
SHA-256-Digest: jWVC4LSx/TyceuAkKB6fw2T2Pp7U2GWiEmT15Jf/CNpg=

Name: com/microsoft/aad/msal4j/DefaultEvent.java
SHA-256-Digest: skJFht3XiW7EmyJhPinoqr4TSLsprelsqAu7zo1Y/Fg=

Name: com/microsoft/aad/msal4j/UserNamePasswordParameters.java
SHA-256-Digest: mld12Yw2xIE/XY35wqF8s5CHECDUZhrQ8A92QWDDY=
Name: com/microsoft/aad/msal4j/PublicClientApplication.java
SHA-256-Digest: f6F8qOsEu1RdSaheRMAOU6k9ZXDAJCb1foyAZ/j4BE=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowParameters.java
SHA-256-Digest: +cCT9o0t9rT87VkPV1mLXQoRcK+MiGIR3pDQ8HzNqV1=

Name: com/microsoft/aad/msal4j/AcquireTokenByDeviceCodeFlowSupplier.java
SHA-256-Digest: HQlxiqziGdrCMdDBiDr0yetV5ykZgkBwWc5wmRJH0Q=

Name: com/microsoft/aad/msal4j/MexParser.java
SHA-256-Digest: f2DVbgtq3l81VFrVeLzhKuuLjwetI9AtUu+WrqaWNE=

Name: com/microsoft/aad/msal4j/ClientSecret.java
SHA-256-Digest: 4QaOHUgemBZJmDO1Aapb+eFv3bMxP9rIbB8AQZ4IWQ=

Name: com/microsoft/aad/msal4j/IClientCredential.java
SHA-256-Digest: maIptKrQVO1PAkvg56SuOSjzuYLY+aJW/7h56M1ujA=

Name: com/microsoft/aad/msal4j/MsalInteractionRequiredException.java
SHA-256-Digest: Yj89vVNFZtaX0naq2q+S8PCsNL3eys4IOCbnumQw90=

Name: com/microsoft/aad/msal4j/RefreshTokenRequest.java
SHA-256-Digest: FaCeukn2hq7JEP7Z3Q6xoeoGhAvIQK7/DByLPkEFiQw=

Name: com/microsoft/aad/msal4j/PublicApi.java
SHA-256-Digest: 6oQPl3troJbK2nJOgxPSOmuoJ5hW7Q5I+sgAIPwDJ4=

Name: com/microsoft/aad/msal4j/AadInstanceDiscoveryProvider.java
SHA-256-Digest: MMMrVxVf+o4rT1T+yYVPV9tUAbr/quz7LSp8/s/YA6TS=

Name: com/microsoft/aad/msal4j/ClientCertificate.java
SHA-256-Digest: bWWV1LQ6Erru7CHAblUCUw7nTV1Exjcm5rvIxS0Tco=

Name: com/microsoft/aad/msal4j/RequestContext.java
SHA-256-Digest: ZhQ703ujQxgjD6+Ig29yaXxCAozBDtORQIpQm7CkLWA=

Name: com/microsoft/aad/msal4j/MsalServiceException.java

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SHAs-256-Digest: 4JXRdkaBV4XZpa66sAQJWMbHKjTwaacM6bDzGPRRhxy=

Name: com/microsoft/aad/msal4j/IClientCertificate.java
SHAs-256-Digest: Jqh6OC0Sd0yi4EJ/10dQISWJCrwqof+17duU14DIMiE=

Name: com/microsoft/aad/msal4j/TokenCacheAccessContext.java
SHAs-256-Digest: IWMaALOSh1IQfQ7smC1QOu83ApdmY31UAJLXDkN5d7k=

Name: com/microsoft/aad/msal4j/ClientCredentialRequest.java
SHAs-256-Digest: TaErM2lzYj4372XSOcO+PK0T7yvYaXZMiUS40BbmsTk=

Name: com/microsoft/aad/msal4j/RefreshTokenCacheEntity.java
SHAs-256-Digest: 65xnh4iNGS22vkNDhioStz0CRuwN5H0i5fN9Um3r/f8=

Name: com/microsoft/aad/msal4j/DeviceCode.java
SHAs-256-Digest: hkbhsdMEsJE3ZBdN3pqGUauv2p7E9+gDKfroqYhNCRo=

Name: com/microsoft/aad/msal4j/IClientAssertion.java
SHAs-256-Digest: UlkEpmJwj2sefmK9k+I6JmSokua7P/mtwSrK1pTkwsk=

Name: com/microsoft/aad/msal4j/HttpUtils.java
SHAs-256-Digest: eMiuuYnPDPn6FheHJ+UDn1xMCHIPe9R17zmw1jORSs=

Name: com/microsoft/aad/msal4j/NamespaceContextImpl.java
SHAs-256-Digest: fbr9RvsxZWCiKH4qpaAyiHv0OnWPekL8RG7avpg/ANg=

Name: com/microsoft/aad/msal4j/HttpHelper.java
SHAs-256-Digest: K/abmr9IvkGNR3e767wI8oBOVTqqGACuB6/9GOwOec=

Name: com/microsoft/aad/msal4j/TelemetryHelper.java
SHAs-256-Digest: 9TWf2bp3Q4UwP0VInUvt926RI+1L6BHE+HUU0aA6k=

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/META-INF/MANIFEST.MF
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// Copyright (c) Microsoft Corporation. All rights reserved.
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/**
 * Class to be used to acquire tokens for confidential client applications (Web Apps, Web APIs,
 * and daemon applications).
 */
/**
 * Creates instance of Builder of ConfidentialClientApplication
 *
 * @param clientId  Client ID (Application ID) of the application as registered
 *                  in the application registration portal (portal.azure.com)
 * @param clientCredential The client credential to use for token acquisition.
* @return instance of Builder of ConfidentialClientApplication
*/

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.
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/**
 * Object containing parameters for refresh token request. Can be used as parameter to
 *
 * [ @link PublicClientApplication#acquireToken(RefreshTokenParameters) } or to
 *
 * [ @link ConfidentialClientApplication#acquireToken(RefreshTokenParameters) ]
 */

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/RefreshTokenParameters.java
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// Copyright (c) Microsoft Corporation. All rights reserved.
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/**
 * Object containing parameters for authorization code flow. Can be used as parameter to
 *
 * [ @link PublicClientApplication#acquireToken(AuthorizationCodeParameters) } or to
 *
 * [ @link ConfidentialClientApplication#acquireToken(AuthorizationCodeParameters) ]
 */

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/AuthorizationCodeParameters.java
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// Copyright (c) Microsoft Corporation. All rights reserved.
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/**
 * 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
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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/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-jar/com/microsoft/aad/msal4j/ClientCertificate.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/Authority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/WSTrustRequest.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/B2CAuthority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/MsalInteractionRequiredException.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/HttpEvent.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/ClientCertificate.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/Authority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/WSTrustRequest.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/B2CAuthority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/MsalInteractionRequiredException.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java
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* /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/ClientCertificate.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/Authority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/WSTrustRequest.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/B2CAuthority.java
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* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/HttpEvent.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/ClientCertificate.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/Authority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/WSTrustRequest.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/B2CAuthority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/MsalInteractionRequiredException.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java

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Signature-Version: 1.0
SHA-256-Digest-Manifest-Main-Attributes: ajLi/ZVDP0IygrDXT5SURtyHBprw86qVUYk5h00v6k=
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Created-By: 1.8.0_112 (Oracle Corporation)

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java
SHA-256-Digest: ga5TmdfxwHB9dh2E0oIZkrtYh4dyFHGes69T8tN8vtk=
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SHA-256-Digest: XQh6myRQuMjIz4WRxFcmAj3rx3pFltyR5DCDqXhDFy+Q=

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SHA-256-Digest: LiJ4BAV4ajhZcQgBp58d7ZmyicsXEnQTnfUQgOGLOCM=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryMetadataEntry.java
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Name: com/microsoft/aad/msal4j/TokenCache.java
SHA-256-Digest: s7Nbdtlf400AVsLvcVTLsVUVpicgfK3RXczLwVg/M=

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Name: com/microsoft/aad/msal4j/AbstractMsalAuthorizationGrant.java
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Name: com/microsoft/aad/msal4j/JsonHelper.java
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Name: com/microsoft/aad/msal4j/IClientSecret.java
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SHA-256-Digest: xjVmPrlleUzL60pq+hI92aAofk2BNvlruRuwattZiveyM=

Name: com/microsoft/aad/msal4j/RemoveAccountRunnable.java
SHA-256-Digest: BE0LI/ZL4piagjgMSW73SJgVOzgHy9/HXuYitv+CSc=
Name: com/microsoft/aad/msal4j/WSTrustResponse.java
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Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java
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Name: com/microsoft/aad/msal4j/UserDiscoveryResponse.java
SHA-256-Digest: Gt7eBYYtt7HuUuNYkIOilbAonq/t00tSkrWAF2VMVY=

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SHA-256-Digest: 0TO2N+JvEqJYKdRKpqH4XnFritE9eqx7Y8NJhzbz1+k=

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SHA-256-Digest: r6d31Tzok+TduMQFwhvzAAn66BZyR0+zSgungpeZ/Y=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java
SHA-256-Digest: Kk/Nd/YiaAyo5I68W/gvpGO1CgkoIRup+FbVRVplaw=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.java
SHA-256-Digest: L32sOG4bfW8eElCubTf603pJ+HFhQjS6amWxAz3GpSA=
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Name: com/microsoft/aad/msal4j/UserAssertion.java
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Name: com/microsoft/aad/msal4j/ICredentialClientApplication.java
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Name: com/microsoft/aad/msal4j/ITelemetry.java
SHA-256-Digest: WYn4mYe33zw96PbbBN495eHwDoA1bex9HexSpDpGhqs=

Name: com/microsoft/aad/msal4j/IAuthenticationResult.java
SHA-256-Digest: UCSXJwNUIQSFO7FOioJeBVFdFkQnhg2S6h++dam0bWI=

Name: com/microsoft/aad/msal4j/HttpClient.java
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Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java
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Name: com/microsoft/aad/msal4j/WSTrustVersion.java
SHA-256-Digest: evuu/CtwAuOds3hkveiczEjwnVspbgD83PtdvzCKPA=

Name: com/microsoft/aad/msal4j/BindingPolicy.java
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Name: com/microsoft/aad/msal4j/HttpEvent.java
SHA-256-Digest: rER6F62H7nlua2j9BxXp60qQVzc9HLCe8CeOd1ARz3yQ=

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Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java
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Name: com/microsoft/aad/msal4j/MsalServiceException.java
SHA-256-Digest: TzpoWQuoj93MFOghqWt3Ny5BSHDa6h/wRVgEoXxTOUA=

Name: com/microsoft/aad/msal4j/IClientCertificate.java
SHA-256-Digest: MIEadp/O1cHiXHxI5qn564svh/sHV17uvev93in+9gg=

Name: com/microsoft/aad/msal4j/TokenCacheAccessContext.java
SHA-256-Digest: 1tcR4ILW4JWBekqeSw3KZ+i/DiNQc3F2GliyiR7nJck=

Name: com/microsoft/aad/msal4j/ClientCredentialRequest.java
SHA-256-Digest: HEJGgs4TY9G1QVvO7WVnhdi/gjDir4bZPr2k7nh110=

Name: com/microsoft/aad/msal4j/RefreshTokenCacheEntity.java
SHA-256-Digest: /BFQwWPUm+dK9bQ6EJvW+Naz/mpaDHOwYk6ZsvKi4w=

Name: com/microsoft/aad/msal4j/DeviceCode.java
SHA-256-Digest: vpnpvijvqJ56ssJ8jDR4daMklUI4FrMbibX51295Y=

Name: com/microsoft/aad/msal4j/IClientAssertion.java
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Name: com/microsoft/aad/msal4j/HttpUtils.java
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* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/META-INF/MSFTSIG.SF
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// Copyright (c) Microsoft Corporation. All rights reserved.
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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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// Licensed under the MIT License.
/**
 * Interface representing a confidential client application (Web App, Web API, Daemon App).
 * Confidential client applications are trusted to safely store application secrets, and therefore
 * can be used to acquire tokens in then name of either the application or an user.
 * For details see https://aka.ms/msal4jclientapplications
 */
/**
 * Acquires tokens from the authority configured in the application, for the confidential client
 * itself
 * @param parameters instance of @link ClientCredentialParameters
 * @return @link CompletableFuture containing an @link IAuthenticationResult
 */
/**
 * Acquires an access token for this application (usually a Web API) from the authority configured
 * in the application, in order to access another downstream protected Web API on behalf of a user
 * using the OnBehalf-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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// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
/**
 * Factory for creating client credentials used in confidential client flows
 */
1.907 ehcache 2.7.4

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2.1.3

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1.921 aws-java-sdk-for-aws-opsworks-for-chef-automate 1.11.555

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1.924 txw2-runtime 2.3.5

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1.928 mapstruct-core 1.2.0.Final

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1.929 aws-java-sdk-for-amazon-pinpoint

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1.11.172

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Amendment II

A well regulated militia, being necessary to the security of a free state, the right of the people to keep and bear arms,
shall not be infringed.
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, but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

Amendment V

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment of a grand jury, except in cases arising in the land or naval forces, or in the militia, when in actual service in time of war or public danger; nor shall any person be subject for the same offense to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use, without just compensation.

Amendment VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defense.

Amendment VII

In suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury, shall be otherwise reexamined in any court of the United States, than according to the rules of the common law.

Amendment VIII

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

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* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-jar/net/sf/ezmorph/primitive/AbstractIntegerMorpher.java
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import java.net.URI

data class License(val name: String, val url: URI, val headerFile: File)
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* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1177596534_1625244107.42/0/json-smart-2-4-2-sources-jar/net/minidev/json/JSONParserInputStream.java

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty Unix_limits.h

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_errors.c
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/Errors.java
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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java

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sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-
sources-jar/netty_unix_buffer.h
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sources-jar/netty_unix_buffer.c
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1.11.508

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1.968 aws-java-sdk-for-firewall-management

1.11.508

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* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-
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MySQL Connector/J 8.0

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JUnit 5

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Simple Logging Facade for Java (SLF4J)

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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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yarn licenses v1.22.5
(BSD-2-Clause OR MIT)

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

xmlldom@0.1.31
URL: git://github.com/xmlldom/xmlldom.git
VendorName: jindw
VendorUrl: https://github.com/xmlldom/xmlldom

(MIT AND JSON)

jshint@2.10.3
URL: https://github.com/jshint/jshint.git
VendorName: Anton Kovalyov
VendorUrl: http://jshint.com/

(MIT OR Apache-2.0)

ember-test-helpers@0.5.34
URL: https://github.com/switchfly/ember-test-helpers.git

(WTFPL OR MIT)
opener@1.4.3
URL: https://github.com/domenic/opener.git
VendorName: Domenic Denicola
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
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VendorUrl: https://github.com/kemitchell/spdx.js
true-case-path@1.0.3
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VendorName: barsh
VendorUrl: https://github.com/barsh/true-case-path#readme
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VendorName: Mikeal Rogers
VendorUrl: http://www.futurealoof.com
tunnel-agent@0.6.0
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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
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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
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/cryptoiles
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
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makeerror@1.0.11
URL: https://github.com/daaku/nodejs-makeerror
VendorName: Naitik Shah
printf@0.2.5
URL: https://github.com/wdavidw/node-printf.git
VendorName: David Worms
VendorUrl: http://www.adaltas.com/projects/node-printf
qs@5.1.0
URL: https://github.com/hapijs/qs.git
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URL: git://github.com/arturadib/shelljs.git  
VendorName: Artur Adib  
VendorUrl: http://github.com/arturadib/shelljs

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

source-map@0.1.43  
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VendorName: Nick Fitzgerald  
VendorUrl: https://github.com/mozilla/source-map

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VendorName: Nick Fitzgerald  
VendorUrl: https://github.com/mozilla/source-map

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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  
VendorUrl: https://github.com/alexei/sprintf.js

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

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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
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esprima-fb@12001.1.0-dev-harmony-fb
URL: http://github.com/facebook/esprima.git
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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
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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

---

Open Source Used In Iomicampaign 6.2.0 7321
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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clean-base-url@1.0.0  
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cliui@2.1.0  
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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
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VendorUrl: http://www.medikoo.com/
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VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme
exists-sync@0.0.4
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ext@1.4.0
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fast-ordered-set@1.0.3
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fs-vacuum@1.2.10
URL: https://github.com/npm/fs-vacuum.git
VendorName: Forrest L. Norvell
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fs-write-stream-atomic@1.0.10
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VendorUrl: http://blog.izs.me/
fstream-ignore@1.0.5
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gauge@1.2.7
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get-caller-file@1.0.3
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glob-parent@2.0.0
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VendorName: Elan Shanker
glob@4.3.5
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graceful-fs@4.2.3
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har-schema@1.0.5
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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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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
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hosted-git-info@2.1.5
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VendorName: Rebecca Turner
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hosted-git-info@2.8.5
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VendorName: Rebecca Turner
VendorUrl: https://github.com/npm/hosted-git-info
in-publish@2.0.0
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inflight@1.0.6
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inherits@2.0.3
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ini@1.3.5
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VendorUrl: http://blog.izs.me/
init-package-json@1.9.6
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isexe@2.0.0
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VendorUrl: https://github.com/isaacs/isexe#readme
json-stringify-safe@5.0.1
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lockfile@1.0.4
URL: https://github.com/npm/lockfile.git
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VendorUrl: http://blog.izs.me/
lru-cache@2.7.3
URL: git://github.com/isaacs/node-lru-cache.git
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lru-cache@4.1.5
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VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: git+https://github.com/stefanpenner/matcher-collection.git
VendorName: Stefan Penner
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VendorUrl: http://blog.izs.me
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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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node-modules-path@1.0.2
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  VendorName: Forrest L Norvell
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  VendorUrl: https://izs.me
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  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
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  VendorName: Stefan Penner
  VendorUrl: https://github.com/ember-cli/process-relative-require#readme
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
  URL: git+https://github.com/isaacs/pseudomap.git
  VendorName: Isaac Z. Schlueter
  VendorUrl: https://github.com/isaacs/pseudomap#readme
read-installed@4.0.3
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  VendorUrl: http://blog.izs.me/
read-package-json@2.0.13
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  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/npm/validate-npm-package-name
which@1.2.14
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/

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
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/kiskowal/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
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VendorUrl: http://github.com/benjamn/ast-types
ast-types@0.8.15
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VendorUrl: http://github.com/benjamn/ast-types
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
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async@2.6.3
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VendorUrl: https://caolan.github.io/async/
asynckit@0.4.0
URL: git+https://github.com/alexindigo/asynckit.git
VendorName: Alex Indigo
VendorUrl: https://github.com/alexindigo/asynckit#readme
aws4@1.9.0
URL: https://github.com/mhart/aws4.git
VendorName: Michael Hart
VendorUrl: http://github.com/mhart
babel-core@5.8.38
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/
babel-plugin-constant-folding@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-constant-folding.git
babel-plugin-dead-code-elimination@1.0.2
URL: https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git
babel-plugin-eval@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-eval.git
babel-plugin-htmlbars-inline-precompile@0.0.5
URL: https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile
VendorName: Clemens Müller
babel-plugin-inline-environment-variables@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git
babel-plugin-jscript@1.0.4
URL: https://github.com/babel-plugins/babel-plugin-jscript.git
babel-plugin-member-expression-literals@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-member-expression-literals.git
babel-plugin-property-literals@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-property-literals.git
babel-plugin-Proto-to-Assign@1.0.4
URL: https://github.com/babel-plugins/babel-plugin-Proto-to-Assign.git
babel-plugin-react-constant-elements@1.0.3
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babel-plugin-react-display-name@1.0.3
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babel-plugin-remove-console@1.0.1
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babel-plugin-remove-debugger@1.0.1
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babel-plugin-runtime@1.0.7
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babel-plugin-undeclared-variables-check@1.0.2
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babel-plugin-undefined-to-void@1.1.6
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babylon@5.8.38
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VendorUrl: https://babeljs.io/
backbone@1.4.0
URL: https://github.com/jashkenas/backbone.git
VendorName: Jeremy Ashkenas
backo2@1.0.2
URL: https://github.com/mokesmokes/backo.git
balanced-match@1.0.0
URL: git://github.com/juliangruber/balanced-match.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/balanced-match
base64-arraybuffer@0.1.2
URL: https://github.com/niklasvh/base64-arraybuffer
VendorName: Niklas von Hertzen
VendorUrl: https://github.com/niklasvh/base64-arraybuffer
basic-auth@2.0.1
URL: https://github.com/jshttp/basic-auth.git
benchmark@1.0.0
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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
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blank-object@1.0.2
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VendorName: Stefan Penner
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bower-shrinkwrap-resolver-ext@0.1.0
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brace-expansion@1.1.11
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braces@1.8.5
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VendorName: Jon Schlinkert
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breakable@1.0.0
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VendorName: Olov Lassus
broccoli-asset-rev@2.4.2
  URL: git://github.com/rickharrison/broccoli-asset-rev
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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
URL: https://github.com/broccolijs/broccoli-merge-trees
VendorName: Jo Liss
broccoli-merge-trees@1.2.4
URL: https://github.com/broccolijs/broccoli-merge-trees
VendorName: Jo Liss
broccoli-merge-trees@2.0.1
URL: https://github.com/broccolijs/broccoli-merge-trees
VendorName: Jo Liss
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broccoli-persistent-filter@1.4.6
URL: git+https://github.com/stefanpenner/broccoli-persistent-filter.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/broccoli-persistent-filter#readme

broccoli-plugin@1.1.0
URL: https://github.com/broccolijs/broccoli-plugin
VendorName: Jo Liss

broccoli-plugin@1.3.1
URL: https://github.com/broccolijs/broccoli-plugin
VendorName: Jo Liss

broccoli-sane-watcher@1.1.5
URL: https://github.com/broccolijs/broccoli-sane-watcher.git
VendorName: Kris Selden
VendorUrl: https://github.com/broccolijs/broccoli-sane-watcher

broccoli-sass-source-maps@2.2.0
URL: https://github.com/aexmachina/broccoli-sass-source-maps
VendorName: Jo Liss

broccoli-slow-trees@1.1.0
URL: https://github.com/rwjblue/broccoli-slow-trees.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/broccoli-slow-trees

broccoli-source@1.1.0
URL: https://github.com/broccolijs/broccoli-source
VendorName: Jo Liss

broccoli-sourcemap-concat@1.1.6
URL: https://github.com/ef4/broccoli-sourcemap-concat
VendorName: Edward Faulkner

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

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

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

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

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

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

broccoli@0.16.8
URL: https://github.com/broccolijs/broccoli
VendorName: Jo Liss
VendorUrl: https://github.com/broccolijs/broccoli
buffer-from@1.1.1
URL: https://github.com/LinusU/buffer-from.git
builtin-modules@1.1.1
URL: https://github.com/sindresorhus/builtin-modules.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
builtns@0.0.7
URL: https://github.com/juliangruber/builtns.git
builtns@1.0.3
URL: https://github.com/juliangruber/builtns.git
bytes@2.2.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
bytes@2.4.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
bytes@3.0.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
bytes@3.1.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
camelcase-keys@2.1.0
URL: https://github.com/sindresorhus/camelcase-keys.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
camelcase@1.2.1
URL: https://github.com/sindresorhus/camelcase.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
camelcase@2.1.1
URL: https://github.com/sindresorhus/camelcase.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
camelcase@3.0.0
URL: https://github.com/sindresorhus/camelcase.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
can-symlink@1.0.0
URL: https://github.com/raytiley/can-symlink
VendorName: raytiley
cardinal@0.5.0
  URL: git://github.com/thlorenz/cardinal.git
  VendorName: Thorsten Lorenz
  VendorUrl: thlorenz.com
center-align@0.1.3
  URL: https://github.com/jonschlinkert/center-align.git
  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/center-align
chalk@0.4.0
  URL: https://github.com/sindresorhus/chalk.git
  VendorName: Sindre Sorhus
  VendorUrl: http://sindresorhus.com
  chalk@0.5.1
  URL: https://github.com/sindresorhus/chalk.git
  chalk@1.1.0
  URL: https://github.com/chalk/chalk.git
  chalk@1.1.3
  URL: https://github.com/chalk/chalk.git
  chalk@2.4.2
  URL: https://github.com/chalk/chalk.git
charm@1.0.2
  URL: http://github.com/substack/node-charm.git
  VendorName: James Halliday
  VendorUrl: http://substack.net
clean-css@2.2.23
  URL: https://github.com/GoalSmashers/clean-css.git
  VendorName: Jakub Pawlowicz
  VendorUrl: https://github.com/GoalSmashers/clean-css
cli-color@0.3.3
  URL: git://github.com/medikoo/cli-color.git
  VendorName: Mariusz Nowak
  VendorUrl: http://www.medikoo.com/
cli-table@0.3.1
  URL: https://github.com/Automattic/cli-table.git
  VendorName: Guillermo Rauch
  cli@1.0.1
  URL: http://github.com/node-js-libs/cli.git
  VendorName: Chris O'Hara
  VendorUrl: http://github.com/node-js-libs/cli
clone@0.2.0
  URL: git://github.com/pvorb/node-clone.git
  VendorName: Paul Vorbach
  VendorUrl: http://paul.vorba.ch/
clone@1.0.4
  URL: git://github.com/pvorb/node-clone.git
  VendorName: Paul Vorbach
  VendorUrl: http://paul.vorba.ch/
clone@2.1.2
URL: git://github.com/isaacs/core-util-is
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
cross-spawn-async@2.2.5
URL: git://github.com/IndigoUnited/node-cross-spawn-async.git
VendorName: IndigoUnited
VendorUrl: http://indigounited.com
cross-spawn@3.0.1
URL: git://github.com/IndigoUnited/node-cross-spawn.git
VendorName: IndigoUnited
VendorUrl: http://indigounited.com
ctype@0.5.3
URL: https://github.com/rmustacc/node-ctype.git
VendorName: Robert Mustacchi
VendorUrl: https://github.com/rmustacc/node-ctype
currently-unhandled@0.4.1
URL: https://github.com/jamestalmage/currently-unhandled.git
VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
URL: git://github.com/medikoo/d.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
dashdash@1.14.1
URL: git://github.com/trentm/node-dashdash.git
VendorName: Trent Mick
VendorUrl: http://trentm.com
date-now@0.1.4
URL: git://github.com/Colingo/date-now.git
VendorName: Raynos
VendorUrl: https://github.com/Colingo/date-now
debug@0.7.4
URL: git://github.com/visionmedia/debug.git
VendorName: TJ Holowaychuk
debug@1.0.2
URL: git://github.com/visionmedia/debug.git
VendorName: TJ Holowaychuk
debug@1.0.3
URL: git://github.com/visionmedia/debug.git
VendorName: TJ Holowaychuk
debug@1.0.4
URL: git://github.com/visionmedia/debug.git
VendorName: TJ Holowaychuk
debug@2.1.0
URL: git://github.com/visionmedia/debug.git
VendorName: TJ Holowaychuk
debug@2.2.0
URL: git://github.com/visionmedia/debug.git
URL: git://github.com/cheeriojs/dom-renderer.git
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: https://github.com/quartzjer/ecc-jsbn.git
VendorName: Jeremie Miller
VendorUrl: https://github.com/quartzjer/ecc-jsbn
editions@1.3.4
URL: https://github.com/bevry/editions.git
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/editions
dependency@1.0.0
URL: git://github.com/substack/node-editor.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/node-editor
ee-first@1.1.1
URL: https://github.com/jonathanong/ee-first.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
em-helpers@0.8.0
URL: https://github.com/sreenaths/em-helpers.git
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: https://github.com/sreenaths/em-table.git
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: https://github.com/bmeurant/ember-array-contains-helper
VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
URL: https://github.com/kaliber5/ember-bootstrap
VendorName: Simon Ihmig
VendorUrl: http://kaliber5.github.io/ember-bootstrap/
ember-cli-app-version@1.0.0
URL: https://github.com/embersherpa/ember-cli-app-version.git
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
VendorUrl: https://github.com/babel/ember-cli-babel
ember-cli-babel@5.2.8
URL: git://github.com/babel/ember-cli-babel.git
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: https://github.com/rwjblue/ember-cli-content-security-policy
ember-cli-copy-dereference@1.0.0
URL: https://github.com/broccolijs/node-copy-dereference
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: https://github.com/quaertym/ember-cli-dependency-checker.git
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: https://github.com/pangratz/ember-cli-htmlbars-inline-precompile
VendorName: Clemens 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: git@github.com:ember-cli/ember-cli-htmlbars.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rjackson/ember-cli-ic-ajax
ember-cli-ic-ajax@0.2.1
URL: https://github.com/rjackson/ember-cli-ic-ajax
VendorName: Robert Jackson
VendorUrl: https://github.com/rjackson/ember-cli-ic-ajax
ember-cli-inject-live-reload@1.4.0
URL: git://github.com/rwjblue/ember-cli-inject-live-reload.git
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/ember-cli-inject-live-reload
ember-cli-jquery-ui@0.0.20
URL: https://github.com/gaurav0/ember-cli-jquery-ui
VendorName: Gaurav Munjal
ember-cli-less@1.5.7
URL: https://github.com/gdub22/ember-cli-less
VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3
URL: git://github.com/jasonmit/ember-cli-moment-shim.git
VendorName: Jason Mitchell
VendorUrl: https://github.com/jasonmit/ember-cli-moment-shim
ember-cli-node-assets@0.1.6
URL: https://github.com/dfreeman/ember-cli-node-assets.git
VendorName: Dan Freeman
ember-cli-numeral@0.2.0
URL: http://github.com/josemarluedke/ember-cli-numeral
VendorName: Jay Phelps
VendorUrl: https://github.com/josemarluedke/ember-cli-numeral
ember-cli-qunit@1.2.1
URL: https://github.com/ember-cli/ember-cli-qunit.git
VendorName: Jake Craige
VendorUrl: https://github.com/ember-cli/ember-cli-qunit
ember-cli-release@0.2.8
URL: https://github.com/lytics/ember-cli-release.git
VendorName: Steven Lindberg
ember-cli-sass@7.0.0  
URL: git://github.com/aexmachina/ember-cli-sass.git  
VendorName: @aexmachina  
VendorUrl: https://github.com/aexmachina/ember-cli-sass
ember-cli-sri@1.2.1  
URL: https://github.com/jonathanKingston/ember-cli-sri  
VendorName: Jonathan Kingston
ember-cli-uglify@1.2.0  
URL: https://github.com/ember-cli/ember-cli-uglify.git
ember-cli-version-checker@1.3.1  
URL: https://github.com/rwjblue/ember-cli-version-checker.git  
VendorName: Robert Jackson  
VendorUrl: https://github.com/rwjblue/ember-cli-version-checker
ember-cli@1.13.14  
URL: https://github.com/ember-cli/ember-cli.git  
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors
ember-d3@0.1.0  
URL: https://github.com/brzpegasus/ember-d3  
VendorName: Estelle DeBlois
ember-data@2.1.0  
URL: git://github.com/emberjs/data.git  
ember-disable-proxy-controllers@1.0.1  
URL: https://github.com/cibernox/ember-disable-proxy-controllers  
VendorName: Miguel Camba
ember-export-application-global@1.0.5  
URL: https://github.com/ember-cli/ember-export-application-global.git  
VendorName: Robert Jackson  
VendorUrl: https://github.com/ember-cli/ember-export-application-global
ember-lodash@0.0.10  
URL: https://github.com/levanto-financial/ember-lodash.git  
VendorName: Mike North  
VendorUrl: https://github.com/levanto-financial/ember-lodash
ember-qunit@0.4.24  
URL: https://github.com/rwjblue/ember-qunit.git
ember-resolver@2.0.3  
URL: git+https://github.com/ember-cli/ember-resolver.git  
VendorName: Robert Jackson  
VendorUrl: https://github.com/ember-cli/ember-resolver#readme
ember-router-generator@1.2.3  
URL: https://github.com/ember-cli/ember-router-generator.git  
VendorName: Adolfo Builes  
VendorUrl: https://github.com/ember-cli/ember-router-generator
ember-spin-spinner@0.2.3  
URL: https://github.com/rsschermer/ember-spin-spinner  
VendorName: Roland Schermer
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
encodeur1@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
erno@0.1.7
URL: https://github.com/rvagg/node-erno.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
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-regex.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/regexhq/filename-regex
fileset@0.2.1
URL: git://github.com/mklabs/node-fileset.git
VendorName: mklabs
VendorUrl: https://github.com/mklabs/node-fileset
fill-range@2.2.4
URL: https://github.com/jonschlinkert/fill-range.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/fill-range
finalhandler@1.1.2
URL: https://github.com/pillarjs/finalhandler.git
VendorName: Douglas Christopher Wilson
find-up@1.1.2
URL: https://github.com/sindresorhus/find-up.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
findup-sync@0.2.1
URL: git://github.com/cowboy/node-findup-sync.git
VendorName: "Cowboy" Ben Alman
VendorUrl: https://github.com/cowboy/node-findup-sync
findup-sync@0.3.0
URL: git://github.com/cowboy/node-findup-sync.git
VendorName: "Cowboy" Ben Alman
VendorUrl: https://github.com/cowboy/node-findup-sync
findup@0.1.5
URL: https://github.com/Filirom1/findup.git
VendorName: Filirom1
fireworm@0.6.6
URL: git@github.com:airportyh/fireworm.git
VendorName: Toby Ho
follow-redirects@1.9.0
URL: git@github.com:follow-redirects/follow-redirects.git
VendorName: Ruben Verborgh
VendorUrl: https://github.com:follow-redirects/follow-redirects
for-in@1.0.2
URL: https://github.com/jonschlinkert/for-in.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/for-in
for-own@0.1.5
URL: https://github.com/jonschlinkert/for-own.git
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
get-repo-version@0.3.0
URL: https://github.com/cibernox/git-repo-version
VendorName: Miguel Camba
github-url-from-git@1.4.0
URL: https://github.com/visionmedia/node-github-url-from-git.git
VendorName: TJ Holowaychuk
glob-base@0.3.0
URL: git://github.com/jonschlinkert/glob-base.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/glob-base
globals@6.4.1
URL: https://github.com/sindresorhus/globals.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
globule@1.3.0
URL: git://github.com/cowboy/node-globule.git
VendorName: "Cowboy" Ben Alman
VendorUrl: https://github.com/cowboy/node-globule
growl@1.10.5
URL: git://github.com/tj/node-growl.git
VendorName: TJ Holowaychuk
handlebars@3.0.7
URL: https://github.com/wycats/handlebars.js.git
VendorName: Yehuda Katz
VendorUrl: http://www.handlebarsjs.com/
har-validator@5.1.3
URL: https://github.com/ahmadnassri/node-har-validator.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/node-har-validator
has-ansi@0.1.0
URL: https://github.com/sindresorhus/has-ansi.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
has-ansi@2.0.0
URL: https://github.com/sindresorhus/has-ansi.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-binary@0.1.6
VendorName: Kevin Roark
has-color@0.1.7
URL: https://github.com/sindresorhus/has-color.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
has-cors@1.1.0
URL: git://github.com/component/has-cors.git
VendorName: Nathan Rajlich
VendorUrl: http://n8.io/
has-flag@3.0.0
URL: https://github.com/sindresorhus/has-flag.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
hasha@2.2.0
URL: https://github.com/sindresorhus/hasha.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
heimdalljs-logger@0.1.10
URL: git+https://github.com/heimdalljs/heimdalljs-logger.git
VendorName: David J. Hamilton
VendorUrl: https://github.com/heimdalljs/heimdalljs-logger#README.md
heimdalljs@0.2.6
URL: git+https://github.com/heimdalljs/heimdalljs-lib.git
VendorUrl: https://github.com/hjdivad/heimdalljs-lib#readme
home-or-tmp@1.0.0
URL: https://github.com/sindresorhus/home-or-tmp.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
htmlparser2@3.8.3
URL: git://github.com/fb55/htmlparser2.git
VendorName: Felix Boehm
http-errors@1.3.1
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
http-errors@1.7.2
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
http-errors@1.7.3
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
http-parser-js@0.4.10
URL: git://github.com/creationix/http-parser-js.git
VendorName: Tim Caswell
VendorUrl: https://github.com/creationix
http-proxy@1.18.0
URL: https://github.com/http-party/node-http-proxy.git
VendorName: Charlie Robbins
http-signature@0.11.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
http-signature@1.1.1
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
http-signature@1.2.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
ic-ajax@2.0.2
URL: https://github.com/instructure/ic-ajax.git
VendorName: Ryan Florence
VendorUrl: https://github.com/instructure/ic-ajax
iconv-lite@0.4.13
URL: git://github.com/ashtuchkin/iconv-lite.git
VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite
iconv-lite@0.4.24
URL: git://github.com/ashtuchkin/iconv-lite.git
VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite
iferr@0.1.5
URL: https://github.com/shesek/iferr
VendorName: Nadav Ivgi
VendorUrl: https://github.com/shesek/iferr
image-size@0.5.5
URL: https://github.com/image-size/image-size.git
VendorName: netroy
VendorUrl: http://netroy.in/
imurmurhash@0.1.4
URL: https://github.com/jensyt/imurmurhash-js
VendorName: Jens Taylor
VendorUrl: https://github.com/jensyt/imurmurhash-js
include-path-searcher@0.1.0
URL: https://github.com/joliss/include-path-searcher
VendorName: Jo Liss
indent-string@2.1.0
URL: https://github.com/sindresorhus/indent-string.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
URL: https://github.com/dreamerslab/node.inflection.git
VendorName: dreamerslab
inquirer@0.5.1
URL: git://github.com/SBoudrias/Inquirer.js.git
VendorName: Simon Boudrias
invert-kv@1.0.0
URL: https://github.com/sindresorhus/invert-kv.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
ipaddr.js@1.9.0
URL: git://github.com/whitequark/ipaddr.js
VendorName: whitequark
is-arrayish@0.2.1
URL: https://github.com/qix-/node-is-arrayish.git
VendorName: Qix
VendorUrl: http://github.com/qix-
is-buffer@1.1.6
URL: git://github.com/feross/is-buffer.git
VendorName: Feross Aboukhadijeh
VendorUrl: http://feross.org/
is-builtin-module@1.0.0
URL: https://github.com/sindresorhus/is-builtin-module.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-dotfile@1.0.3
URL: https://github.com/jonschlinkert/is-dotfile.git
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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
URL: https://github.com/sindresorhus/is-finite.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-fullwidth-code-point@1.0.0
URL: https://github.com/sindresorhus/is-fullwidth-code-point.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-fullwidth-code-point@2.0.0
URL: https://github.com/sindresorhus/is-fullwidth-code-point.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-git-url@0.2.0
URL: git://github.com/jonschlinkert/is-git-url.git
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VendorUrl: https://github.com/jonschlinkert/is-git-url
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VendorUrl: https://github.com/jonschlinkert/is-git-url
is-glob@2.0.1
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VendorUrl: https://github.com/jonschlinkert/is-glob
is-my-ip-valid@1.0.0
URL: https://github.com/LinusU/is-my-ip-valid.git
is-my-json-valid@2.20.0
URL: https://github.com/mafintosh/is-my-json-valid.git
is-number@2.1.0
URL: https://github.com/jonschlinkert/is-number.git
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VendorUrl: https://github.com/jonschlinkert/is-number
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-number
is-posix-bracket@0.1.1
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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
is-typedarray@1.0.0
URL: git://github.com/hughsk/is-typedarray.git
VendorName: Hugh Kennedy
is-utf8@0.2.1
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isarray@0.0.1
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VendorName: Julian Gruber
isarray@1.0.0
URL: git://github.com/juliangruber/isarray.git
VendorName: Julian Gruber
isbinaryfile@2.0.4
URL: https://github.com/gtorikian/isBinaryFile
isobject@2.1.0
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VendorName: Jon Schlinkert
isstream@0.1.2
URL: https://github.com/rvagg/isstream.git
VendorName: Rod Vagg
istextorbinary@2.1.0
URL: http://github.com/bevry/istextorbinary.git
VendorName: 2012+ Bevry Pty Ltd
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
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
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lodash._basecallback@3.3.1
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VendorUrl: https://github.com/jonschlinkert/longest
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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/michaelrhodes/markdown-it.git
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markdown-it@4.4.0
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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
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methods@1.1.2
URL: https://github.com/jshttp/methods.git
micromatch@2.3.11
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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
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VendorUrl: http://blog.izs.me
minimist@0.0.10
URL: git://github.com/substack/minimist.git
VendorName: James Halliday
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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
VendorUrl: http://substack.net
mkdirp@0.4.2
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VendorUrl: http://substack.net
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VendorUrl: http://substack.net
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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/
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mout@0.9.1
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VendorUrl: http://moutjs.com/
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ms@2.1.1
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mustache@2.3.2
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VendorUrl: https://github.com/janl/mustache.js
nan@2.14.0
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negotiator@0.6.2
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VendorUrl: http://www.medikoo.com/
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VendorUrl: http://www.medikoo.com/
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VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net
node-gyp@3.8.0
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VendorUrl: http://tootallnate.net
node-int64@0.4.0
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VendorName: Robert Kieffer
node-sass@4.13.0
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VendorName: Andrew Nesbitt
VendorUrl: https://github.com/sass/node-sass
node-uuid@1.4.8
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VendorUrl: https://github.com/broofa/node-uuid
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VendorUrl: https://github.com/jonschlinkert/normalize-path
number-is-nan@1.0.1
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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
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VendorUrl: http://sindresorhus.com
object-assign@3.0.0
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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

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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
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VendorUrl: sindresorhus.com
path-exists@2.1.0
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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
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
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path-to-regexp@0.1.7
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path-type@1.1.0
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VendorUrl: sindresorhus.com
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performance-now@0.2.0
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VendorName: Meryn Stol
VendorUrl: https://github.com/melyn/performance-now
performance-now@2.1.0
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VendorName: Lupo Montero
VendorUrl: https://lupomontero.com/
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VendorName: Mathias Bynens
VendorUrl: https://mths.be/punycode
punycode@2.1.1
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VendorUrl: https://mths.be/punycode
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VendorName: Kris Kowal
VendorUrl: https://github.com/kriskowal/q
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quick-temp@0.1.8
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VendorName: jQuery Foundation and other contributors
VendorUrl: https://qunitjs.com/
randomatic@3.1.1
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VendorName: Jon Schlinkert
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range-parser@1.2.1
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VendorName: TJ Holowaychuk
VendorUrl: http://tjholowaychuk.com
raw-body@2.1.7
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VendorUrl: http://jongleberry.com
raw-body@2.4.0
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VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
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VendorUrl: sindresorhus.com
read-pkg@1.1.0
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VendorUrl: sindresorhus.com
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  VendorName: Isaac Z. Schlueter
  VendorUrl: http://blog.izs.me/
readable-stream@1.1.14
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readable-stream@2.3.6
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recast@0.10.33
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redeyed@0.5.0
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  VendorName: Thorsten Lorenz
  VendorUrl: thlorenz.com
regenerate@1.4.0
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  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
regisgen@0.2.0
URL: https://github.com/d10/regjsgen.git
VendorName: Benjamin Tan
VendorUrl: https://github.com/d10/regjsgen
repeat-element@1.1.3
URL: https://github.com/jonschlinkert/repeat-element.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/repeat-element
repeat-string@1.6.1
URL: https://github.com/jonschlinkert/repeat-string.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/repeat-string
repeating@1.1.3
URL: https://github.com/sindresorhus/repeating.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
repeating@2.0.1
URL: https://github.com/sindresorhus/repeating.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
request-progress@2.0.1
URL: git://github.com/IndigoUnited/node-request-progress
VendorName: IndigoUnited
VendorUrl: http://indigounited.com
require-directory@2.1.1
URL: git://github.com/troygoode/node-require-directory.git
VendorName: Troy Goode
VendorUrl: https://github.com/troygoode/node-require-directory/
requires-port@1.0.0
URL: https://github.com/unshiftio/requires-port
VendorName: Arnout Kazemier
VendorUrl: https://github.com/unshiftio/requires-port
resolve-package-path@1.2.7
resolve@1.14.1
URL: git://github.com/browserify/resolve.git
VendorName: James Halliday
VendorUrl: http://substack.net
retry@0.8.0
URL: git://github.com/tim-kos/node-retry.git
VendorName: Tim 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/
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
simple-fmt@0.1.0
URL: https://github.com/olov/simple-fmt.git
VendorName: Olov Lassus
simple-is@0.2.0
URL: https://github.com/olov/simple-is.git
VendorName: Olov Lassus
slash@1.0.0
URL: https://github.com/sindresorhus/slash.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
socket.io-client-pure@1.3.12
URL: https://github.com/Automattic/socket.io-client.git
socket.io-parser@2.2.2
URL: https://github.com/Automattic/socket.io-parser.git
socket.io-parser@2.2.4
URL: https://github.com/Automattic/socket.io-parser.git
socket.io-pure@1.3.12
URL: git://github.com/Automattic/socket.io
source-map-support@0.2.10
URL: https://github.com/evanw/node-source-map-support
source-map-url@0.3.0
URL: https://github.com/lydell/source-map-url.git
VendorName: Simon Lydell
spawnback@1.0.0
URL: git://github.com/scottgonzalez/spawnback.git
VendorName: Scott Gonzalez
VendorUrl: https://github.com/scottgonzalez/spawnback
spdx-expression-parse@3.0.0
URL: https://github.com/jslicense/spdx-expression-parse.js.git
VendorName: Kyle E. Mitchell
VendorUrl: http://kemitchell.com
sri-toolbox@0.2.0
URL: https://github.com/neftaly/npm-sri-toolbox.git
VendorName: Neftaly Hernandez
sshpk@1.16.1
URL: git+https://github.com/joyent/node-sshpk.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/arekinath/node-sshpk#readme
stable@0.1.8
URL: https://github.com/Two-Screen/stable.git
VendorName: Angry Bytes
statuses@1.5.0
URL: https://github.com/jshttp/statuses.git
stdout-stream@1.4.1
URL: https://github.com/mafintosh/stdout-stream.git
string_decoder@0.10.31
Open Source Used In imicampaign 6.2.0  7378

URL: https://github.com/sindresorhus/strip-bom.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-indent@1.0.1
URL: https://github.com/sindresorhus/strip-indent.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
strip-json-comments@1.0.4
URL: https://github.com/sindresorhus/strip-json-comments.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: https://github.com/sindresorhus/supports-color.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
supports-color@2.0.0
URL: https://github.com/chalk/supports-color.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: https://github.com/chalk/supports-color.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symlink-or-copy@1.3.1
URL: https://github.com/broccolijs/node-symlink-or-copy
VendorName: Jo Liss
tap-parser@1.3.2
URL: git://github.com/substack/tap-parser.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/tap-parser
temp@0.8.1
URL: git://github.com/bruce/node-temp.git
VendorName: Bruce Williams
testem@0.9.11
URL: git://github.com/airportyh/testem.git
VendorName: Toby Ho
text-table@0.2.0
URL: git://github.com/substack/text-table.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/text-table
textextensions@2.6.0
URL: https://github.com/bevry/textextensions.git
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/textextensions
throttleit@1.0.0
URL: git://github.com/component/throttle.git
through@2.3.8
URL: https://github.com/dominictarr/through.git
VendorName: Dominic Tarr
VendorUrl: https://github.com/dominictarr/through

tiny-lr@0.2.0
URL: git://github.com/mklabs/tiny-lr.git
VendorName: mklabs
VendorUrl: https://github.com/mklabs/tiny-lr

tmp@0.0.28
URL: git://github.com/raszi/node-tmp.git
VendorName: KARASZI Istvan
VendorUrl: http://github.com/raszi/node-tmp

to-array@0.1.3
URL: git://github.com/Raynos/to-array.git
VendorName: Raynos
VendorUrl: https://github.com/Raynos/to-array

to-fast-properties@1.0.3
URL: https://github.com/sindresorhus/to-fast-properties.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

toidentifier@1.0.0
URL: https://github.com/component/toidentifier.git
VendorName: Douglas Christopher Wilson

trim-newlines@1.0.0
URL: https://github.com/sindresorhus/trim-newlines.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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

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

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

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

typedarray@0.0.6
URL: git://github.com/substack/typedarray.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/typedarray

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

uglify-to-browserify@1.0.2
URL: https://github.com/ForbesLindesay/uglify-to-browserify.git
VendorName: ForbesLindesay
ultron@1.0.2
URL: https://github.com/unshiftio/ultron
VendorName: Arnout Kazemier
VendorUrl: https://github.com/unshiftio/ultron

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

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

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

underscore@1.9.1
URL: git://github.com/jashkenas/underscore.git
VendorName: Jeremy Ashkenas
VendorUrl: http://underscorejs.org/

universalify@0.1.2
URL: git+https://github.com/RyanZim/universalify.git
VendorName: Ryan Zimmerman
VendorUrl: https://github.com/RyanZim/universalify#readme

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

user-home@1.1.1
URL: https://github.com/sindresorhus/user-home.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

username-sync@1.0.2
URL: git@github.com:stefanpenner/username-sync
VendorName: Stefan Penner

utf8@2.1.0
URL: https://github.com/mathiasbynens/utf8.js.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/utf8js

util-deprecate@1.0.2
URL: git://github.com/TooTallNate/util-deprecate.git
VendorName: Nathan Rajlich
VendorUrl: https://github.com/TooTallNate/util-deprecate

util-extend@1.0.3
URL: git://github.com/isaacs/util-extend

utils-merge@1.0.1
URL: git://github.com/jaredhanson/utils-merge.git
VendorName: Jared Hanson
VendorUrl: http://www.jaredhanson.net/

uuid@2.0.3
URL: https://github.com/defunctzombie/node-uuid.git
VendorName: Robert Kieffer
uuid@3.3.3
URL: https://github.com/kelektiv/node-uuid.git
vary@1.1.2
URL: https://github.com/jshttp/vary.git
VendorName: Douglas Christopher Wilson
verror@1.10.0
URL: git://github.com/davepacheco/node-verror.git
walk-sync@0.1.3
URL: https://github.com/joliss/node-walk-sync
VendorName: Jo Liss
walk-sync@0.2.7
URL: https://github.com/joliss/node-walk-sync
VendorName: Jo Liss
walk-sync@0.3.4
URL: https://github.com/joliss/node-walk-sync
VendorName: Jo Liss
wcwidth@1.0.1
URL: git+https://github.com/timoxley/wcwidth.git
VendorName: Tim Oxley
VendorURL: https://github.com/timoxley/wcwidth#readme
websocket-extensions@0.1.3
URL: git://github.com/faye/websocket-extensions-node.git
VendorName: James Coglan
VendorURL: http://github.com/faye/websocket-extensions-node
window-size@0.1.0
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window-size@0.1.4
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wordwrap@0.0.2
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VendorName: James Halliday
VendorURL: http://substack.net
wordwrap@0.0.3
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VendorName: James Halliday
VendorURL: http://substack.net
wrap-ansi@2.1.0
URL: https://github.com/chalk/wrap-ansi.git
VendorName: Sindre Sorhus
VendorURL: sindresorhus.com
ws-pure@0.8.0
URL: git://github.com/patocallaghan/ws.git
VendorName: Pat O'Callaghan
xdg-basedir@2.0.0
URL: https://github.com/sindresorhus/xdg-basedir.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
xmlhttprequest-ssl@1.5.1
URL: git://github.com/mjwwit/node-XMLHttpRequest.git
VendorName: Michael de Wit
xtend@4.0.2
URL: git://github.com/Raynos/xtend.git
VendorName: Raynos
VendorUrl: https://github.com/Raynos/xtend
yam@0.0.18
URL: https://github.com/twokul/yam
VendorName: Alex Navasardryan
VendorUrl: http://twokul.io
yargs@3.10.0
URL: http://github.com/bcoe/yargs.git
VendorName: Alex Ford
VendorUrl: http://CodeTunnel.com
yargs@3.27.0
URL: http://github.com/bcoe/yargs.git
VendorName: Alex Ford
VendorUrl: http://CodeTunnel.com
yargs@7.1.0
URL: http://github.com/yargs/yargs.git
VendorUrl: http://yargs.js.org/
yauzl@2.4.1
URL: https://github.com/thejoshwolfe/yauzl.git
VendorName: Josh Wolfe
VendorUrl: https://github.com/thejoshwolfe/yauzl
MIT*
after@0.8.1
URL: git://github.com/Raynos/after.git
VendorName: Raynos
assert-plus@0.1.5
URL: https://github.com/mcavage/node-assert-plus.git
VendorName: Mark Cavage
async-foreach@0.1.3
URL: git://github.com/cowboy/javascript-sync-async-foreach.git
VendorName: "Cowboy" Ben Alman
VendorUrl: http://github.com/cowboy/javascript-sync-async-foreach
blob@0.0.4
URL: git@github.com:rase-/blob.git
VendorUrl: https://github.com/rase-/blob
callsite@1.0.0
VendorName: TJ Holowaychuk
component-bind@1.0.0
URL: https://github.com/component/bind.git
component-emitter@1.1.2
URL: https://github.com/component/emitter.git

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

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

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

indexof@0.0.1
ms@0.6.2
URL: git://github.com/guille/ms.js.git

object-component@0.0.3

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

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

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

UNKNOWN
base64id@0.1.0
URL: https://github.com/faeldt/base64id.git
VendorName: Kristian Faeldt

colors@0.6.2
URL: http://github.com/Marak/colors.js.git
VendorName: Marak Squires
VendorUrl: https://github.com/Marak/colors.js

Unlicense
spdx-license-ids@1.2.2
URL: https://github.com/shinnn/spdx-license-ids.git
VendorName: Shinnosuke Watanabe
VendorUrl: https://github.com/shinnn

tweetnacl@0.14.5
URL: https://github.com/dchest/tweetnacl-js.git
VendorName: TweetNaCl-js contributors
VendorUrl: https://tweetnacl.js.org/

WTFPL

sorted-object@1.0.0
URL: git://github.com/domenic/sorted-object.git
VendorName: Domenic Denicola
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JUnit

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Zstd-jni: JNI bindings to Zstd Library

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

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

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.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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    VendorName: Christian Hoffmeister
    VendorUrl: https://github.com/choffmeister/roboto-fontface-bower
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    VendorName: Felix Boehm
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    VendorName: Alexandru Marasteanu
    VendorUrl: http://alexei.ro/
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    URL: git://github.com/isaacs/node-glob.git
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VendorUrl: https://github.com/npm/wrappy

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angular-loader@1.6.10
URL: https://github.com/angular/angular.js.git
VendorName: Angular Core Team
VendorUrl: http://angularjs.org/

angular-mocks@1.6.10
URL: https://github.com/angular/angular.js.git
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VendorUrl: http://angularjs.org/

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VendorUrl: https://caolan.github.io/async/

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VendorName: Julian Gruber
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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/dfcreative/color-name

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VendorName: Heather Arthur

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VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/colornames#readme

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

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VendorName: TJ Holowaychuk

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URL: git://github.com/substack/node-concat-map.git
VendorName: James Halliday
VendorUrl: http://substack.net

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fast-safe-stringify@2.0.7
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VendorUrl: https://lodash.com/

VendorName: Charlie Robbins
VendorUrl: https://github.com/winstonjs/logform#readme

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VendorUrl: https://github.com/ChALkeR/safer-buffer@2.1.2

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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.google.api.grpc:proto-google-common-protos:1.12.0
com.google.errorprone:error_prone_annotations:2.3.3
com.google.j2objc:j2objc-annotations:1.1
com.google.gson:gson:2.2.4
com.google.guava:failureaccess:1.0
com.google.guava:guava:27.0-jre
com.google.guava:guava:jar:30.1.1-jre
com.google.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava
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.zaxxer:HikariCP-java7:2.2.0
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-collections:4.4.2
org.apache.commons:commons-compress:1.19
org.apache.commons:commons-configuration:2.2.1.1
org.apache.commons:commons-csv:1.0
org.apache.commons:commons-digester:1.8.1
org.apache.commons:commons-lang:3.3.7
org.apache.commons:commons-math:3.3.1.1
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.apache.htrace:htrace-core:3.1.0-incubating
org.apache.htrace:htrace-core:4.1.0-incubating

Open Source Used In Imicampaign 6.2.0 7472
org.apache.httpcomponents:httpclient:4.5.13
org.apache.httpcomponents:httpcore:4.4.13
org.apache.kafka:kafka-clients:2.4.0
org.apache.kerby:kerb-admin:1.0.1
org.apache.kerby:kerb-client:1.0.1
org.apache.kerby:kerb-common:1.0.1
org.apache.kerby:kerb-core:1.0.1
org.apache.kerby:kerb-crypto:1.0.1
org.apache.kerby:kerb-identity:1.0.1
org.apache.kerby:kerb-server:1.0.1
org.apache.kerby:kerb-simplekdc:1.0.1
org.apache.kerby:kerb-util:1.0.1
org.apache.kerby:kerby-asn1:1.0.1
org.apache.kerby:kerby-config:1.0.1
org.apache.kerby:kerby-pkix:1.0.1
org.apache.kerby:kerb-utility:1.0.1
org.apache.kerby:kerb-xdr:1.0.1
org.apache.kerby:token-provider:1.0.1
org.apache.yetus:audience-annotations:0.5.0
org.apache.zookeeper:zookeeper:3.5.6
org.apache.zookeeper:zookeeper-jute:3.5.6
org.codehaus.jackson:jackson-core-asl:1.9.13
org.codehaus.jackson:jackson-jaxrs:1.9.13
org.codehaus.jackson:jackson-mapper-asl:1.9.13
org.codehaus.jackson:jackson-xc:1.9.13
org.eclipse.jetty:jetty-annotations:9.4.40.v20210413
org.eclipse.jetty:jetty-client:9.4.40.v20210413
org.eclipse.jetty:jetty-http:9.4.40.v20210413
org.eclipse.jetty:jetty-io:9.4.40.v20210413
org.eclipse.jetty:jetty-jndi:9.4.40.v20210413
org.eclipse.jetty:jetty-plus:9.4.40.v20210413
org.eclipse.jetty:jetty-security:9.4.40.v20210413
org.eclipse.jetty:jetty-server:9.4.40.v20210413
org.eclipse.jetty:jetty-servlet:9.4.40.v20210413
org.eclipse.jetty:jetty-utils:9.4.40.v20210413
org.eclipse.jetty:websocket:9.4.40.v20210413
org.eclipse.jetty:websocket-client:9.4.40.v20210413
org.eclipse.jetty:websocket-server:9.4.40.v20210413
org.eclipse.jetty:websocket-common:9.4.40.v20210413
org.ehcache:ehcache:3.3.1
org.lz4:lz4-java:1.7.1
This product bundles various third-party components under other open source licenses. This section summarizes those components and their licenses. See licenses-binary/ for text of these licenses.

**BSD 2-Clause**

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

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

**BSD 3-Clause**

```
......
hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/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
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldb:leveldbjni:leveldbjni-all:1.8
```
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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/jquery.dataTables.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/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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

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

CDDL 1.1 + GPLv2 with classpath exception

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

Eclipse Public License 1.0

junit:junit:4.13.1

Eclipse Distribution License 1.0

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

HSQL License

org.hsqldb:hsqldb:2.3.4

JDOM License

org.jdom:jdom:1.1

Boost Software License, Version 1.0

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

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

aopalliance:aopalliance:1.0

See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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1.1004 aws-java-sdk-for-auto-scaling 1.11.555

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1.1030 assertj-fluent-assertions 3.19.0

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1.1031 aws-java-sdk-for-aws-organizations

1.11.155

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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 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 LIBTIFF:

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1.9.2

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endif:[]
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Kevin Ko <kevin.s.ko@gmail.com>
* Small patch to handle trailing slashes in --proto_path flag.

Johan Euphrosine <proppy@aminche.com>
* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>
* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>
* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>
* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>
* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* 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 xIC compiler build issues
* Added atomicops for AIX (POWER)

1.1051 slf4j-log4j-12-binding 1.6.3

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1.1056 aws-java-sdk-for-amazon-lex-model-building 1.11.155

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1.1057 brave-instrumentation-for-reactor-netty-http 1.0.10

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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
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
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
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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: https://github.com/jrburke/amdefine

BSD*
diff@1.4.0
  URL: git://github.com/kpdecker/jsdiff.git
esprima-fb@12001.1.0-dev-harmony-fb
  URL: http://github.com/facebook/esprima.git
VendorName: Ariya Hidayat
VendorUrl: https://github.com/facebook/esprima/tree/fb-harmony
esprima-fb@15001.1001.0-dev-harmony-fb
  URL: http://github.com/facebook/esprima.git
VendorName: Ariya Hidayat
VendorUrl: https://github.com/facebook/esprima/tree/fb-harmony
json-schema@0.2.3
  URL: http://github.com/kriszyp/json-schema
VendorName: Kris Zyp

CC-BY-3.0
spdx-exceptions@2.2.0
  URL: https://github.com/kemitchell/spdx-exceptions.json.git
VendorName: The Linux Foundation

CC0-1.0
spdx-license-ids@3.0.5
  URL: https://github.com/shinnn/spdx-license-ids.git
VendorName: Shinnosuke Watanabe
VendorUrl: https://github.com/shinnn

ISC
abbrev@1.0.9
  URL: http://github.com/isaacs/abbrev-js
VendorName: Isaac Z. Schlueter
abbrev@1.1.1
  URL: http://github.com/isaacs/abbrev-js
VendorName: Isaac Z. Schlueter
anymatch@1.3.2
URL: https://github.com/es128/anymatch
VendorName: Elan Shanker
VendorUrl: https://github.com/es128/anymatch
aproba@1.2.0
URL: https://github.com/iarna/aproba
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/aproba
are-we-there-yet@1.0.6
URL: https://github.com/iarna/are-we-there-yet.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/are-we-there-yet
are-we-there-yet@1.1.5
URL: https://github.com/iarna/are-we-there-yet.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/are-we-there-yet
async-some@1.0.2
URL: https://github.com/othiym23/async-some.git
VendorName: Forrest L. Norvell
VendorUrl: https://github.com/othiym23/async-some
block-stream@0.0.8
URL: git://github.com/isaacs/block-stream.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
block-stream@0.0.9
URL: git://github.com/isaacs/block-stream.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
broccoli-viz@2.0.1
URL: https://github.com/stefanpenner/broccoli-viz.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/broccoli-viz
char-spinner@1.0.1
URL: git://github.com/isaacs/char-spinner
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/char-spinner
chmodr@1.0.2
URL: git://github.com/isaacs/chmodr.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
chownr@1.0.1
URL: git://github.com/isaacs/chownr.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
chownr@1.1.3
URL: git://github.com/isaacs/chownr.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
clean-base-url@1.0.0
URL: git+ssh://git@github.com/stefanpenner/clean-base-url.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/clean-base-url#readme

cliui@2.1.0
URL: http://github.com/bcoe/cliui.git
VendorName: Ben Coe

cliui@3.2.0
URL: http://github.com/yargs/cliui.git
VendorName: Ben Coe

console-control-strings@1.1.0
URL: https://github.com/iarna/console-control-strings
VendorName: Rebecca Turner
VendorUrl: http://re-becca.org/

d@1.0.1
URL: git://github.com/medikoo/d.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

dezalgo@1.0.3
URL: https://github.com/npm/dezalgo
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/dezalgo

ember-cli-get-dependency-depth@1.0.0
URL: git+https://github.com/ember-cli/get-dependency-depth.git
VendorName: ember-cli Contributors
VendorUrl: https://github.com/ember-cli/get-dependency-depth#readme

ember-cli-is-package-missing@1.0.0
URL: git+https://github.com/ember-cli/ember-cli.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli#readme

ember-cli-normalize-entity-name@1.0.0
URL: git+https://github.com/ember-cli/ember-cli.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli#readme

ember-cli-path-utils@1.0.0
URL: git+https://github.com/ember-cli/ember-cli-path-utils.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-path-utils#readme

ember-cli-preprocess-registry@1.1.0
URL: git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git
VendorName: ember-cli Contributors
VendorUrl: https://github.com/ember-cli/ember-cli-preprocessor-registry#readme

ember-cli-string-utils@1.1.0
URL: git+https://github.com/ember-cli/ember-cli-string-utils.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-string-utils#readme

ember-cli-test-info@1.0.0
URL: git+https://github.com/ember-cli/ember-cli-test-info.git

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Open Source Used In imicampaign 6.2.0 7789
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-test-info#readme
ensure-posix-path@1.1.1
URL: git+https://github.com/stefanpenner/ensure-posix-path.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/ensure-posix-path#readme
es5-ext@0.10.53
URL: https://github.com/medikoo/es5-ext.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
es6-symbol@3.1.3
URL: git://github.com/medikoo/es6-symbol.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
events-to-array@1.1.2
URL: https://github.com/isaacs/events-to-array
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/events-to-array
exists-sync@0.0.3
URL: git+https://github.com/ember-cli/exists-sync.git
VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme
exists-sync@0.0.4
URL: git+https://github.com/ember-cli/exists-sync.git
VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme
ext@1.4.0
URL: https://github.com/medikoo/es5-ext/tree/ext
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
fast-ordered-set@1.0.3
fs-monitor-stack@1.1.1
URL: git+https://github.com/stefanpenner/fs-monitor-stack.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/fs-monitor-stack#readme
fs-vacuum@1.2.10
URL: https://github.com/npm/fs-vacuum.git
VendorName: Forrest L Norvell
VendorUrl: https://github.com/npm/fs-vacuum
fs-write-stream-atomic@1.0.10
URL: https://github.com/npm/fs-write-stream-atomic
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/fs-write-stream-atomic
fs.realpath@1.0.0
URL: git+https://github.com/isaacs/fs.realpath.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
fstream-ignore@1.0.5
URL: git://github.com/isaacs/fstream-ignore.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
fstream-npm@1.0.7
URL: https://github.com/npm/fstream-npm.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
fstream@1.0.12
URL: https://github.com/npm/fstream.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
gauge@1.2.7
URL: https://github.com/iarna/gauge
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/gauge
get-caller-file@1.0.3
URL: git+https://github.com/stefanpenner/get-caller-file.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/get-caller-file#readme
glob-parent@2.0.0
URL: https://github.com/es128/glob-parent
VendorName: Elan Shanker
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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VendorUrl: http://blog.izs.me/
glob@5.0.15
URL: git://github.com/isaacs/node-glob.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
glob@6.0.4
URL: git://github.com/isaacs/node-glob.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
glob@7.1.6
URL: git://github.com/isaacs/node-glob.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
graceful-fs@3.0.12
URL: git://github.com/isaacs/node-graceful-fs.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
graceful-fs@4.1.15
URL: https://github.com/isaacs/node-graceful-fs
graceful-fs@4.2.3
URL: https://github.com/isaacs/node-graceful-fs
har-schema@1.0.5
URL: https://github.com/ahmadnassri/har-schema.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-schema
har-schema@2.0.0
URL: https://github.com/ahmadnassri/har-schema.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-schema
har-validator@2.0.6
URL: https://github.com/ahmadnassri/har-validator.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-validator
har-validator@4.2.1
URL: https://github.com/ahmadnassri/har-validator.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-validator
has-binary-data@0.1.3
VendorName: Kevin Roark
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
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hosted-git-info@2.8.5
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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
URL: git://github.com/isaacs/mute-stream
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
natives@1.1.6
[36x36]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
[91x91]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
[91x91]URL: https://github.com/npm/nopt.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
normalize-git-url@3.0.2
[91x91]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
[91x91]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
[91x91]URL: git+https://github.com/npm/npm-normalize-package-bin
VendorName: Isaac Z. Schlueter
VendorUrl: https://izs.me
npm-package-arg@4.0.2
[91x91]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
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VendorName: Isaac Z. Schlueter
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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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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
npmlog@1.2.1
[91x91]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
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
semver@4.3.6
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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
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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
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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/
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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
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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
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VendorUrl: https://github.com/npm/validate-npm-package-name
VendorUrl: https://github.com/acornjs/acorn
ajv@4.11.8
  VendorName: Evgeny Poberezkin
  VendorUrl: https://github.com/acornjs/acorn
ajv@6.10.2
  VendorName: Evgeny Poberezkin
  VendorUrl: https://github.com/acornjs/acorn

align-text@0.1.4
  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/align-text

alter@0.2.0
  VendorName: Olov Lassus

amd-name-resolver@0.0.2
  VendorName: Ember CLI contributors

ansi-regex@0.2.1
  VendorName: Sindre Sorhus
  VendorUrl: http://sindresorhus.com
ansi-regex@1.1.1
  VendorName: Sindre Sorhus
  VendorUrl: http://sindresorhus.com
ansi-regex@2.1.1
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  VendorUrl: http://sindresorhus.com
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  VendorUrl: https://github.com/sindresorhus/ansi-styles
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  VendorName: Sindre Sorhus
  VendorUrl: https://github.com/chalk/ansi-styles
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
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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
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arr-flatten@1.1.0
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/arr-flatten
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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
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VendorName: Blake Embrey
VendorUrl: https://github.com/blakeembrey/array-flatten
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VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net
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  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/array-unique
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  VendorUrl: https://github.com/rase-/arraybuffer.slice
asar@2.0.6
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asn1@0.1.11
  URL: git://github.com/mcavage/node-asn1.git
  VendorName: Mark Cavage
asn1@0.2.4
  URL: git://github.com/jonathanriggs/node-asn1.git
  VendorName: Joyent
  VendorUrl: https://github.com/jonathanriggs/node-asn1
assert-plus@0.2.0
  URL: https://github.com/mcavage/node-assert-plus.git
  VendorName: Mark Cavage
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  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
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  VendorUrl: http://github.com/benjamn/ast-types
ast-types@0.9.6
  URL: git://github.com/benjamn/ast-types.git
  VendorName: Ben Newman
  VendorUrl: http://github.com/benjamn/ast-types
async-disk-cache@1.3.5
  URL: https://github.com/stefanpenner/async-disk-cache.git
  VendorName: Stefan Penner
async-promise-queue@1.0.5
  URL: https://github.com/stefanpenner/async-promise-queue
  VendorName: Stefan Penner
async@0.2.10
  URL: https://github.com/caolan/async.git
  VendorName: Caolan McMahon
async@0.8.0
  URL: https://github.com/caolan/async.git
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async@0.9.0
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VendorName: Caolan McMahon
async@1.5.2
URL: https://github.com/caolan/async.git
VendorName: Caolan McMahon
async@2.6.3
URL: https://github.com/caolan/async.git
VendorName: Caolan McMahon
VendorUrl: https://caolan.github.io/async/
asynckit@0.4.0
URL: git+https://github.com/alexindigo/asynckit.git
VendorName: Alex Indigo
VendorUrl: https://github.com/alexindigo/asynckit#readme
aws4@1.9.0
URL: https://github.com/mhart/aws4.git
VendorName: Michael Hart
VendorUrl: http://github.com/mhart
babel-core@5.8.38
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/
babel-plugin-constant-folding@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-constant-folding.git
babel-plugin-dead-code-elimination@1.0.2
URL: https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git
babel-plugin-eval@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-eval.git
babel-plugin-htmlbars-inline-precompile@0.0.5
URL: https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile
VendorName: Clemens Müller
babel-plugin-inline-environment-variables@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git
babel-plugin-jscript@1.0.4
URL: https://github.com/babel-plugins/babel-plugin-jscript.git
babel-plugin-member-expression-literals@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-member-expression-literals.git
babel-plugin-property-literals@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-property-literals.git
babel-plugin-proto-to-assign@1.0.4
URL: https://github.com/babel-plugins/babel-plugin-proto-to-assign.git
babel-plugin-react-constant-elements@1.0.3
URL: https://github.com/babel-plugins/babel-plugin-react-constant-elements.git
babel-plugin-react-display-name@1.0.3
URL: https://github.com/babel-plugins/babel-plugin-react-display-name.git
babel-plugin-remove-console@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-remove-console.git
babel-plugin-remove-debugger@1.0.1
URL: https://github.com/babel-plugins/babel-plugin-remove-debugger.git
babel-plugin-runtime@1.0.7
URL: https://github.com/babel-plugins/babel-plugin-runtime.git
babel-plugin-undeclared-variables-check@1.0.2
URL: https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git
babel-plugin-undefined-to-void@1.1.6
URL: https://github.com/babel-plugins/babel-plugin-undefined-to-void.git
babylon@5.8.38
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/
backbone@1.4.0
URL: https://github.com/jashkenas/backbone.git
VendorName: Jeremy Ashkenas
backo2@1.0.2
URL: https://github.com/mokesmokes/backo.git
balanced-match@1.0.0
URL: git://github.com/juliangruber/balanced-match.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/balanced-match
base64-arraybuffer@0.1.2
URL: https://github.com/niklasvh/base64-arraybuffer
VendorName: Niklas von Hertzen
VendorUrl: https://github.com/niklasvh/base64-arraybuffer
basic-auth@2.0.1
URL: https://github.com/jshttp/basic-auth.git
benchmark@1.0.0
URL: https://github.com/bestiejs/benchmark.js.git
VendorName: Mathias Bynens
VendorUrl: http://benchmarkjs.com/
better-assert@1.0.2
URL: https://github.com/visionmedia/better-assert.git
VendorName: TJ Holowaychuk
binaryextensions@2.2.0
URL: https://github.com/bevry/binaryextensions.git
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/binaryextensions
bl@1.0.3
URL: https://github.com/rvagg/bl.git
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bl@1.1.2
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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
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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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bower-shrinkwrap-resolver-ext@0.1.0
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brace-expansion@1.1.11
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VendorName: Julian Gruber
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braces@1.8.5
URL: https://github.com/jonschlinkert/braces.git
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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
VendorUrl: https://github.com/ember-cli/broccoli-caching-writer.git
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
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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
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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
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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
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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
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broccoli-merge-trees@1.2.4
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broccoli-merge-trees@2.0.1
  URL: https://github.com/broccolijs/broccoli-merge-trees
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broccoli-persistent-filter@1.4.6
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broccoli-plugin@1.3.1
  URL: https://github.com/broccolijs/broccoli-plugin
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broccoli-sane-watcher@1.1.5
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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
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VendorName: Robert Jackson
  VendorUrl: https://github.com/rwjblue/broccoli-slow-trees
broccoli-source@1.1.0
  URL: https://github.com/broccolijs/broccoli-source
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
  URL: https://github.com/ef4/broccoli-sourcemap-concat
VendorName: Edward Faulkner
broccoli-sourcemap-concat@2.0.2
  URL: https://github.com/ef4/broccoli-sourcemap-concat
VendorName: Edward Faulkner
broccoli-sri-hash@1.2.2
  URL: https://github.com/jonathanKingston/broccoli-sri-hash.git
VendorName: Jonathan Kingston
broccoli-stew@1.6.0
  URL: https://github.com/stefanpenner/broccoli-stew.git
VendorName: Stefan Penner & Robert Jackson
  VendorUrl: https://github.com/stefanpenner/broccoli-stew
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  VendorUrl: https://github.com/ember-cli/broccoli-uglify-sourcemap#readme
broccoli-unwatched-tree@0.1.3
VendorUrl: http://paul.vorba.ch/
clone@1.0.4
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
clone@2.1.2
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
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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
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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
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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/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
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VendorName: Robert Mustacchi
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currently-unhandled@0.4.1
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VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
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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
date-now@0.1.4
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VendorName: Raynos
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debug@0.7.4
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delayed-stream@1.0.0
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destroy@1.0.4
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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
ember-cli-node-assets@0.1.6
URL: https://github.com/dfreeman/ember-cli-node-assets.git
VendorName: Dan Freeman
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URL: http://github.com/josemarluedke/ember-cli-numeral
VendorName: Jay Phelps
VendorUrl: https://github.com/josemarluedke/ember-cli-numeral
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Open Source Used In imicampaign 6.2.0  7815
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<td>James Coglan</td>
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<td>Andrew Kelley</td>
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<td>Toby Ho</td>
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**Open Source Used In icampaign 6.2.0 7818**
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VendorUrl: http://debuggable.com/

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VendorUrl: http://tjholowaychuk.com

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VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-fs-extra

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VendorUrl: https://github.com/jprichardson/node-fs-extra

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VendorUrl: http://jongleberry.com

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VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

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fs-tree-diff@0.5.9
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VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

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VendorName: Kyle Robinson Young
VendorUrl: https://github.com/shama/gaze

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VendorName: Mathias Buus
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VendorUrl: http://sindresorhus.com

getpass@0.1.7
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VendorName: Alex Wilson

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VendorName: Miguel Camba

github-url-from-git@1.4.0
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VendorName: TJ Holowaychuk

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VendorUrl: http://sindresorhus.com

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handlebars@3.0.7
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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: https://github.com/sindresorhus/is-builtin-module
is-dotfile@1.0.3
  URL: https://github.com/jonschlinkert/is-dotfile.git
  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/is-dotfile
is-equal-shallow@0.1.3
URL: git://github.com/jonschlinkert/is-equal-shallow.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-equal-shallow

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

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

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

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

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

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

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

is-glob@2.0.1
URL: https://github.com/jonschlinkert/is-glob.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-glob

is-my-ip-valid@1.0.0
URL: https://github.com/LinusU/is-my-ip-valid.git

is-my-json-valid@2.20.0
URL: https://github.com/mafintosh/is-my-json-valid.git

is-number@2.1.0
URL: https://github.com/jonschlinkert/is-number.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-number

is-number@4.0.0
URL: https://github.com/jonschlinkert/is-number.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-number
is-posix-bracket@0.1.1
URL: https://github.com/jonschlinkert/is-posix-bracket.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-posix-bracket
is-primitive@2.0.0
URL: 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/gtorikian/isBinaryFile
isobject@2.1.0
URL: https://github.com/jonschlinkert/isobject.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/isobject
issstream@0.1.2
URL: https://github.com/rvagg/issstream.git
VendorName: Rod Vagg
VendorUrl: https://github.com/rvagg/issstream
istextorbinary@2.1.0
URL: http://github.com/bevry/istextorbinary.git
VendorName: 2012+ Bevry Pty Ltd
VendorUrl: https://github.com/bevry/istextorbinary
js-tokens@1.0.1
   URL: https://github.com/lydell/js-tokens.git
   VendorName: Simon Lydell
js-yaml@3.13.1
   URL: https://github.com/nodeca/js-yaml.git
   VendorName: Vladimir Zapparov
   VendorUrl: https://github.com/nodeca/js-yaml
jsbn@0.1.1
   URL: https://github.com/andyperlitch/jsbn.git
   VendorName: Tom Wu
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
   URL: https://github.com/zkat/json-parse-better-errors
   VendorName: Kat Marchn
json-schema-traverse@0.4.1
   URL: git+https://github.com/epoberezkin/json-schema-traverse.git
   VendorName: Evgeny Poberezkin
   VendorUrl: https://github.com/epoberezkin/json-schema-traverse#readme
json-stable-stringify@1.0.1
   URL: git://github.com/substack/json-stable-stringify.git
   VendorName: James Halliday
   VendorUrl: https://github.com/substack/json-stable-stringify
json3@3.2.6
   URL: git://github.com/bestiejs/json3.git
   VendorName: Kit Cambridge
   VendorUrl: http://bestiejs.github.io/json3
json5@0.4.0
   URL: https://github.com/aseemk/json5.git
   VendorName: Aseem Kishore
   VendorUrl: http://json5.org/
jsonfile@2.4.0
   URL: git@github.com:jprichardson/node-jsonfile.git
   VendorName: JP Richardson
jsonfile@4.0.0
   URL: git@github.com:jprichardson/node-jsonfile.git
   VendorName: JP Richardson
jsonpinter@4.0.1
   URL: http://github.com/janl/node-jsonpointer.git
   VendorName: Jan Lehnardt
jsprim@1.4.1
   URL: git://github.com/joeytong/jsprim
kind-of@3.2.2
   URL: https://github.com/jonschlinkert/kind-of.git
   VendorName: Jon Schlinkert
   VendorUrl: https://github.com/jonschlinkert/kind-of
kind-of@6.0.2
URL: https://github.com/jonschlinkert/kind-of.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/kind-of
klassy@0.1.3
URL: https://github.com/cerebris/klassy.js.git
klaw@1.3.1
URL: git+https://github.com/jprichardson/node-klaw.git
VendorName: JP Richardson
VendorUrl: https://github.com/jprichardson/node-klaw#readme
lazy-cache@1.0.4
URL: https://github.com/jonschlinkert/lazy-cache.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/lazy-cache
lcid@1.0.0
URL: https://github.com/sindresorhus/lcid.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
leek@0.0.18
URL: https://github.com/twokul/leek
VendorName: Alex Navasardyan
VendorUrl: http://twokul.io
leven@1.0.2
URL: https://github.com/sindresorhus/leven.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
linkify-it@1.2.4
URL: https://github.com/markdown-it/linkify-it.git
livereload-js@2.4.0
URL: git://github.com/livereload/livereload-js.git
VendorUrl: https://github.com/livereload/livereload-js
load-json-file@1.1.0
URL: https://github.com/sindresorhus/load-json-file.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
loader.js@4.2.3
URL: https://github.com/ember-cli/loader.js.git
VendorUrl: https://github.com/ember-cli/loader.js
lodash-es@3.10.1
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/custom-builds
lodash-node@2.4.1
URL: https://github.com/lodash/lodash-node.git
VendorName: John-David Dalton
VendorUrl: http://lodash.com/custom-builds
lodash-node@3.10.2
URL: https://github.com/lodash/lodash-node.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.merge@4.6.2
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.pad@4.5.1
URL: https://github.com/lodash/lodash.git
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lodash.padend@4.6.1
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.padstart@4.6.1
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.pairs@3.0.1
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.restparam@3.6.1
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.toplainobject@3.0.0
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.uniq@3.2.2
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash@2.3.0
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: http://lodash.com/
lodash@2.4.2
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: http://lodash.com/
lodash@3.10.1
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash@4.17.15
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
longest@1.0.1
URL: https://github.com/jonschlinkert/longest.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/longest
loud-rejection@1.6.0
URL: https://github.com/sindresorhus/loud-rejection.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
Iru-queue@0.1.0
URL: git://github.com/medikoo/Iru-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-descriptor@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
VendorName: yeikos
VendorUrl: https://github.com/yeikos/js.merge
methods@1.1.2
URL: https://github.com/jshttp/methods.git
micromatch@2.3.11
URL: https://github.com/jonschlinkert/micromatch.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/micromatch
mime-db@1.42.0
URL: https://github.com/jshttp/mime-db.git
mime-types@2.1.25
URL: https://github.com/jshttp/mime-types.git
mime@1.6.0
URL: https://github.com/broofa/node-mime
VendorName: Robert Kieffer
VendorUrl: http://github.com/broofa
minimatch@0.2.14
URL: git://github.com/isaacs/minimatch.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
minimatch@1.0.0
URL: git://github.com/isaacs/minimatch.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
minimist@0.0.10
URL: git://github.com/substack/minimist.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/minimist
minimist@0.0.8
URL: git://github.com/substack/minimist.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/minimist
minimist@1.2.0
URL: git://github.com/substack/minimist.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/minimist
mkdirp@0.3.5
URL: http://github.com/substack/node-mkdirp.git
VendorName: James Halliday
VendorUrl: http://substack.net
mkdirp@0.4.2
URL: https://github.com/substack/node-mkdirp.git
VendorName: James Halliday
VendorUrl: http://substack.net
mkdirp@0.5.0
URL: https://github.com/substack/node-mkdirp.git
VendorName: James Halliday
VendorUrl: http://substack.net
mkdirp@0.5.1
URL: https://github.com/substack/node-mkdirp.git
VendorName: James Halliday
VendorUrl: http://substack.net
mktemp@0.3.5
URL: git://github.com/sasaplus1/mktemp.git
VendorName: sasa+1
mktemp@0.4.0
URL: git://github.com/sasaplus1/mktemp.git
VendorName: sasa+1
moment-timezone@0.3.1
URL: https://github.com/moment/moment-timezone.git
VendorName: Tim Wood
VendorUrl: http://momentjs.com/timezone/
moment@2.24.0
URL: https://github.com/moment/moment.git
VendorName: Iskren Ivov Chernev
VendorUrl: http://momentjs.com/
morgan@1.9.1
URL: https://github.com/expressjs/morgan.git
mout@0.9.1
URL: git://github.com/mout/mout.git
VendorUrl: http://moutjs.com/
ms@0.7.1
URL: git://github.com/guille/ms.js.git
ms@2.0.0
URL: https://github.com/zeit/ms.git
ms@2.1.1
URL: https://github.com/zeit/ms.git
ms@2.1.2
URL: https://github.com/zeit/ms.git
mustache@2.3.2
URL: https://github.com/janl/mustache.js.git
VendorName: mustache.js Authors
VendorUrl: https://github.com/janl/mustache.js
nan@2.14.0
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
tomatoes@0.1

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/TooTallNate/node-path-array

VendorName: Nathan Rajlich
VendorUrl: https://github.com/TooTallNate/node-path-array

path-root-regex@0.1.2

URL: https://github.com/regexhq/path-root-regex.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/TooTallNate/node-path-array

path-root@0.1.1

URL: https://github.com/jonschlinkert/path-root.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/TooTallNate/node-path-array

path-to-regexp@0.1.7

URL: https://github.com/component/path-to-regexp.git
VendorName: Andrew Kelley
VendorUrl: https://github.com/TooTallNate/node-path-array

pend@1.2.0

URL: https://github.com/sindresorhus/path-type.git
VendorName: Andrew Kelley
VendorUrl: https://github.com/TooTallNate/node-path-array

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: 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/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

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  
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VendorUrl: http://jongleberry.com

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VendorUrl: http://jongleberry.com

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VendorUrl: https://github.com/ChALkeR
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VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com

styled_string@0.0.1
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VendorUrl: http://sindresorhus.com

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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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

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VendorUrl: https://github.com/substack/tap-parser

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VendorUrl: http://crockford.com/
SEE LICENSE IN LICENSE
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JUnit

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Zstd-jni: JNI bindings to Zstd Library

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LZ4 - Fast LZ compression algorithm

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uriparser - RFC 3986 URI parsing library

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hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
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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/native/gtest/gtest-all.cc
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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-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jQuery.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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

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

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js
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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: git://github.com/fb55/entities.git
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    VendorName: Isaac Z. Schlueter
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VendorName: Angular Core Team
VendorUrl: http://angularjs.org/

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VendorName: Peter Rottmann
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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
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URL: git://github.com/juliangruber/brace-expansion.git
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fast-safe-stringify@2.0.7
URL: git+https://github.com/davidmarkclements/fast-safe-stringify.git
VendorName: David Mark Clements
VendorUrl: https://github.com/davidmarkclements/fast-safe-stringify#readme

fecha@2.3.3
URL: https://taylorhakes@github.com/taylorhakes/fecha.git
VendorName: Taylor Hakes
VendorUrl: https://github.com/taylorhakes/fecha

fs-extra@3.0.1
URL: https://github.com/jprichardson/node-fs-extra
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fs-extra@7.0.1
URL: https://github.com/jprichardson/node-fs-extra
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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
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
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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
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linkify-it@2.2.0
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lodash@4.17.15
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logform@2.1.2
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VendorUrl: https://github.com/winstonjs/logform#readme

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one-time@0.0.4
URL: https://github.com/unshiftio/one-time
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process-nextick-args@2.0.1
URL: https://github.com/calvinmetcalf/process-nextick-args.git
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readable-stream@2.3.7
URL: git://github.com/nodejs/readable-stream
readable-stream@3.6.0
URL: git://github.com/nodejs/readable-stream

requirejs@2.3.6
URL: https://github.com/jrburke/r.js.git
VendorName: James Burke
VendorUrl: http://github.com/jrburke/r.js

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

safe-buffer@5.2.0
URL: git://github.com/feross/safe-buffer.git
VendorName: Feross Aboukhadijeh
VendorUrl: https://github.com/feross/safe-buffer
safer-buffer@2.1.2
URL: git+https://github.com/ChALkeR/safer-buffer.git
VendorName: Nikita Skovoroda
VendorUrl: https://github.com/ChALkeR

simple-swizzle@0.2.2
URL: https://github.com/qix-/node-simple-swizzle.git
VendorName: Qix
VendorUrl: http://github.com/qix-

stack-trace@0.0.10
URL: git://github.com/felixge/node-stack-trace.git
VendorName: Felix Geisendrfer
VendorUrl: https://github.com/felixge/node-stack-trace

string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder

string_decoder@1.3.0
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder

text-hex@1.0.0
URL: https://github.com/3rd-Eden/text-hex
VendorName: Arnout Kazemier
VendorUrl: https://github.com/3rd-Eden/text-hex

triple-beam@1.3.0
URL: git+https://github.com/winstonjs/triple-beam.git
VendorName: Charlie Robbins
VendorUrl: https://github.com/winstonjs/triple-beam#readme

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

universalify@0.1.2
URL: git+https://github.com/RyanZim/universalify.git
VendorName: Ryan Zimmerman
VendorUrl: https://github.com/RyanZim/universalify#readme

util-deprecate@1.0.2
URL: git://github.com/TooTallNate/util-deprecate.git
VendorName: Nathan Rajlich
VendorUrl: https://github.com/TooTallNate/util-deprecate

winston-transport@4.3.0
URL: git@github.com:winstonjs/winston-transport.git
VendorName: Charlie Robbins
VendorUrl: https://github.com/winstonjs/winston-transport#readme

winston@3.2.1
URL: https://github.com/winstonjs/winston.git
VendorName: Charlie Robbins

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

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
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uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

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org.jdom:jdom:1.1
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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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

aopalliance:aopalliance:1.0

See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp
To generate the report, execute 'yarn licenses list' at these two directories.

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1.1065 aws-java-sdk-for-aws-iot-jobs-data-plane 1.11.257

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1.1067 aws-java-sdk-for-aws-performance-insights 1.11.508

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1.1068 aws-java-sdk-for-aws-health-apis-and-notifications 1.11.555

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 * </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.

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.

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.
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.

Related operations

* 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.

* To retrieve 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 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.

* 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.
* `</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>`
* `</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.
* `</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 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.
* `</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>
</ul>
</note>

<p>
<b>Minimum permissions</b>
</p>
<p>
To run this command, you must have the following permissions:
</p>
<ul>
<li>
<p>
secretsmanager:PutSecretValue
</p>
</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>
</li>
</ul>

<p>
<b>Related operations</b>
</p>
<ul>
<li>
<p>
To retrieve the encrypted value you store in the version of a secret, use <a>GetSecretValue</a>.
</p>
</li>
<li>
<p>
To create a secret, use <a>CreateSecret</a>.
</p>
</li>
</ul>
To get the details for a secret, use `DescribeSecret`.

To list the versions attached to a secret, use `ListSecretVersionIds`.

@param putSecretValueRequest  
@return A Java Future containing the result of the PutSecretValue operation returned by the service.

@sample AWSSecretsManagerAsync.PutSecretValue
@see http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/PutSecretValue

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 `RotateSecret` 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,
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>`
* 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>
* <p>
* Related operations</p>
* </p>
* </ul>
* To create a new secret, use CreateSecret.
* </p>
* </li>
* </li>
* </p>
* To add only a new version to an existing secret, use PutSecretValue.
* </p>
* </li>
* </li>
* </p>
* To get the details for a secret, use DescribeSecret.
* </p>
* </li>
* </li>
* </p>
* To list the versions contained in a secret, use ListSecretVersionIds.
* </p>
* </li>
* </ul>
*}
* @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>
*/
*/
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* CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions
* and limitations under the License.
*/

Found in path(s):
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/AWSSecretsManagerAsync.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/transform/PutSecretValueRequestProtocolMarshaller.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/transform/PutSecretValueResultJsonUnmarshaller.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretsRequestMarshaller.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/InternalServiceErrorException.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/transform/CancelRotateSecretResultJsonUnmarshaller.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/DecryptionFailureException.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/transform/DeleteSecretRequestMarshaller.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/Tag.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/transform/CreateSecretRequestMarshaller.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/ListSecretsRequest.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/RestoreSecretRequest.java
* /opt/cola/permissions/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/model/PutSecretValueRequest.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/RotationRulesTypeJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/RotateSecretResult.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/RotateSecretResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/CreateSecretRequest.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/GetRandomPasswordRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/UpdateSecretVersionStageRequest.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/RestoreSecretRequestProtocolMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/CancelRotateSecretRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/AWSSecretsManagerException.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/UntagResourceResult.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/TagResourceRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/TagResourceRequest.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/AWSSecretsManagerAsyncClientBuilder.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretVersionIdsRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/DescribeSecretRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/describe/AWSSecretsManagerAsyncClientBuilder.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/DescribeSecretRequest.java
* 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>  
* </li>  
* </ul>  
* </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>  
* </p>  
* </li>  
* </ul>  
* </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>  
* </p>  
* </li>
**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.

**Related operations**

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.

```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 LimitExceeededException
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 "How Key State Affects Use of a Customer Master Key".

@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 "AWS API Documentation"
* 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:

- 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>`.

* @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:
*         </p>
*         </ul>
*         <p>
*         You tried to perform the operation on a secret that's currently marked deleted.
*         </p>
*         </li>
*         </li>
*         </p>
*         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.
*         </p>
*         </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 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.
* </p>
* <p>
* 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.

**Minimum permissions**

To run this command, you must have the following permissions:

- secretsmanager:UpdateSecret
- 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.
- 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.

**Related operations**

- 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>.

* @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.
* 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 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 AWS Secrets Manager.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/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/AWSSecretsManagerClient.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-jar/com/amazonaws/services/secretsmanager/AWSSecretsManager.java

1.1070 aws-java-sdk-for-aws-directory-service 1.11.257

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* A very simple CSV parser released under a commercial-friendly license.
* This just implements splitting a single line into fields.
*
* The purpose of the CSVParser is to take a single string and parse it into
* its elements based on the delimiter, quote and escape characters.
*
* The CSVParser has grown organically based on user requests and does not truly match
* any current requirements (though it can be configured to match or come close). There
* is no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.
* 
* @author Glen Smith
* @author Rainer Pruy
*/

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1.1077 aws-java-sdk-for-aws-directory-service 1.11.508

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1.1081 aws-java-sdk-for-aws-codecommit

1.11.257

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1.1083 aws-java-sdk-for-aws-lambda 1.11.508

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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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1.1097 kerby-kerb-admin 1.0.1

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