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1.634.1 Available under license
1.635 activation-api 1.2.1
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1.636 jts-core 1.15.0
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1.637 google-http-client-appengine 1.42.3
1.637.1 Available under license
1.638 opentelemetry-api 1.31.0
1.638.1 Available under license
1.639 json-schema-validator 1.0.48
1.639.1 Available under license
1.640 jna 5.12.1

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1.641 jcodings 1.0.44

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1.642 opensaml-java 4.3.0

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1.643 jackson-dataformat-cbor 2.15.0

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1.644 opensaml-profile-api 4.3.0

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1.645 opentelemetry-semconv 1.21.0-alpha

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1.646 jline-reader 3.21.0

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1.647 opensaml-security-api 4.3.0

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1.648 grpc-context 1.49.2

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1.649 opensaml-security-impl 4.3.0

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1.650 jline-terminal-jna 3.21.0

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1.652 opensaml-soap-api 4.3.0

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1.653 opensaml-saml-api 4.3.0

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1.654 ecs-logging-core 1.2.0

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1.655 api-common 2.3.1

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1.656 google-cloud-core 2.8.28

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1.657 google-cloud-storage 2.13.1

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1.658 gax 2.20.1

1.658.1 Available under license

1.659 google-cloud-core-http 2.8.28

1.659.1 Available under license

1.660 proto-google-common-protos 2.9.6
1.660.1 Available under license
1.661 jakarta-servlet-api 5.0.2
1.661.1 Available under license
1.662 jakarta-servlet-api 5.0.0
1.662.1 Available under license
1.663 x-pack-security 8.19.5
1.663.1 Available under license
1.664 es-opensaml-security-api 8.19.5
1.664.1 Available under license
1.665 elasticsearch-rest-client-sniffer 8.19.5
1.665.1 Available under license
1.666 x-pack-esql-core 8.19.5
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1.675 x-pack-esql 8.19.5
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1.681 elasticsearch-ssl-config 8.19.5
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1.682.1 Available under license
1.683 transport-netty4 8.19.5
1.683.1 Available under license
1.684 elasticsearch-plugin-analysis-api 8.19.5
1.684.1 Available under license
1.685 elasticsearch-lz4 8.19.5
1.685.1 Available under license
1.686 elasticsearch-logging 8.19.5
1.686.1 Available under license
1.687 elasticsearch-cli 8.19.5
1.687.1 Available under license
1.688 elasticsearch-core 8.19.5
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1.690 elasticsearch-geo 8.19.5
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1.691 elasticsearch-grok 8.19.5
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1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into

larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or

more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to

be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

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============

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 must acknowledge somewhere in your documentation that
  you've used the IJG code.

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ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
 coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
  "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated. GIF(sm) is a Service Mark property of

CompuServe Incorporated."

REFERENCES
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We
highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more
leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp.
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The
JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%

shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still
Images, Part 2: Compliance testing" and has document
numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't

have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
==========

Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;

it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read.
 (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether
 SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary

smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 lz4 1.9.3

1.2.1 Available under license :

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Version 2, June 1991

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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* /jna-5-12-1-sources-jar/com/sun/jna/InvocationMapper.java
*
 /jna-5-12-1-sources-jar/com/sun/jna/JNIEnv.java
* /jna-5-12-1-sources-jar/com/sun/jna/NativeString.java
* /jna-5-12-1-sources-jar/com/sun/jna/VarArgsChecker.java
* /jna-5-12-1-sources-jar/com/sun/jna/Memory.java
* /jna-5-12-1-sources-jar/com/sun/jna/win32/W32APIOptions.java
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* /jna-5-12-1-sources-jar/com/sun/jna/TypeMapper.java
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* /jna-5-12-1-sources-jar/com/sun/jna/FunctionMapper.java
* /jna-5-12-1-sources-jar/com/sun/jna/ptr/LongByReference.java
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* /jna-5-12-1-sources-jar/com/sun/jna/win32/StdCallFunctionMapper.java
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1.11 zstd 1.5.5

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1.12 boost 1.86

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Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
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****

---
include/GL/gl.h :

Mesa 3-D
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include/GL/wglxext.h :

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tree/README

== Authors ==

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uncompressed gif writing code
former maintainer

Eric Raymond <esr[AT]snark.thyrsus.com>
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# 1.15 icu4j 68.2

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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/sift/SiftModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/ImplicitModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/sift/NOPSiftModelHandler.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/XTeeOutputStream.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/SerializeModelModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/DummyEncoder.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/SerializeModelAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/SerializeModelModelHandler.java
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 /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/helpers/NOPAppender.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/parser/TokenStream.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/color/CyanCompositeConverter.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/encoder/Encoder.java
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 /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/html/CssBuilder.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/SiftAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/ElementSelector.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/Compressor.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/JoranConstants.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/LiteralConverter.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/subst/Token.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/SyslogOutputStream.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/RollingPolicy.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/EventEvaluatorAction.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/DefaultClass.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/parser/CompositeNode.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/FormatInfo.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/CyclicBufferTracker.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ContextAwareBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/RollingCalendar.java
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 /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/node/ComponentNode.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/JoranException.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java

* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/server/ServerListener.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/sift/AbstractDiscriminator.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/LogbackException.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/DelayStrategy.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/event/StartEvent.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/server/Client.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/read/CyclicBufferAppender.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/DeferredProcessingAware.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/sift/AppenderFactory.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/Loader.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/CachingDateFormatter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/ImplicitModelData.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/filter/EvaluatorFilter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/conditional/Condition.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/FilterAttachable.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/AutoFlushingObjectWriter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/DefaultSocketConnector.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/layout/EchoLayout.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/event/EndEvent.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/TokenConverter.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ContextAwareImpl.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/encoder/EchoEncoder.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/RenameUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/ObjectWriterFactory.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/SyslogAppenderBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/NewRuleAction.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/read/ListAppender.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/Action.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/XMLUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/ssl/SSL.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ComponentTracker.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/FileFilterUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/html/IThrowableRenderer.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java
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/logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ScanException.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/AppenderRefAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/ContentTypeUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/IncludeAction.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/Layout.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedRollingPolicy.java

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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/LocationUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/PropertySetterException.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/status/InfoStatus.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/status/StatusListenerAsList.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/ssl/SSLParametersConfiguration.java

* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/Context.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/SaxEventInterpretationContext.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/SequenceNumberGeneratorAction.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/FixedDelay.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/RuleStore.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/pattern/parser/Parser.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/LogbackLock.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/util/JNDIUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/Appender.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/AppenderModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ElseModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java
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 /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/PhaseIndicator.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/ProcessingPhase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/action/BaseModelAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/SiftModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/conditional/ElseModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ShutdownHookModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/net/HardenedObjectInputStream.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ImportModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ErrorCodes.java
* /logback-core-1-5-18-sources-1-
jar/ch/qos/logback/core/model/processor/SequenceNumberGeneratorModelHandler.java
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 /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/conditional/IfAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/AppenderRefDependencyAnalyser.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/DependencyDefinition.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/recovery/RecoveryListener.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ImplicitModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/SequenceNumberGeneratorModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/DefineModel.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/Model.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/NamedModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/TimestampModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/TimestampModel.java

* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/ModelHandlerBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/conditional/IfModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/ShutdownHookModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/conditional/ElseAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
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 /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ComponentModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/StatusListenerModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ModelConstants.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/util/TagUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/EventEvaluatorModel.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/RefContainerDependencyAnalyser.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/NOPModelHandler.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/StringListAppender.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/MockInitialContext.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/spi/ConfigurationEvent.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/testUtil/NPEAppender.java

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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/XZCompressionStrategy.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/helper/GZCompressionStrategy.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/util/AggregationAssessor.java
*
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/joran/spi/HttpUtil.java
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* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/ModelUtil.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/ConversionRuleModelHandler.java
* /logback-core-1-5-18-sources-1-jar/ch/qos/logback/core/model/processor/IncludeModelHandler.java
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1.18 httpasyncclient 4.1.1

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1.20 junit-jupiter-api 5.8.2

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1.24 spring-cloud-commons 4.1.2

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1.25 asm 9.7.1

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1.26 lucene-analysis-common 9.12.2

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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
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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Nori Korean Morphological Analyzer - Apache Lucene Integration
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 mecab-ko-dic-2.0.3-20170922

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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,

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

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German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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See https://github.com/carrot2/carrot2.

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data from the BSD-licensed dictionary of Polish (SGJP, http://sgjp.pl/morfeusz/).

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===
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1.31 opentest4j 1.3.0

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* /opentest4j-1-3-0-sources-jar/org/opentest4j/TestSkippedException.java
* /opentest4j-1-3-0-sources-jar/org/opentest4j/TestAbortedException.java
* /opentest4j-1-3-0-sources-jar/org/opentest4j/MultipleFailuresError.java
*
/opentest4j-1-3-0-sources-jar/org/opentest4j/AssertionFailedError.java
* /opentest4j-1-3-0-sources-jar/org/opentest4j/FileInfo.java
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1.32 jackson 2.17.3

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.33 apm-aws-sdk-1-plugin 1.52.2

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1.34 jackson 2.17.2

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This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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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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* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/MagicConstant.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/JdkConstants.java

1.51 apache-mime4j-core 0.8.13

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* /okio-3-4-0-sources-1-jar/jvmTest/okio/internal/HashFunction.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/CipherFactory.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/CipherSinkTest.kt
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* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-4-0-sources-1-jar/nativeMain/okio/PosixFileSystem.kt
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 /okio-3-4-0-sources-1-jar/jvmTest/okio/internal/Hmac.kt
* /okio-3-4-0-sources-1-jar/jsMain/okio/FileSystem.kt
* /okio-3-4-0-sources-1-jar/appleMain/okio/ApplePosixVariant.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/HashingSink.kt
* /okio-3-4-0-sources-1-jar/appleTest/okio/AppleByteStringTest.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/PathTest.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/Path.kt
* /okio-3-4-0-sources-1-jar/jvmMain/okio/NioSystemFileSystem.kt
* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/Path.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/internal/Path.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/FileSystemJavaTest.java
* /okio-3-4-0-sources-1-jar/nativeMain/okio/FileSink.kt
* /okio-3-4-0-sources-1-jar/linuxX64Main/okio/LinuxX64PosixVariant.kt
* /okio-3-4-0-sources-1-jar/unixMain/okio/UnixPosixVariant.kt
* /okio-3-4-0-sources-1-jar/mingwX64Main/okio/WindowsPosixVariant.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/ZipFileSystemJavaTest.java
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* /okio-3-4-0-sources-1-jar/hashFunctions/okio/internal/Hmac.kt
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* /okio-3-4-0-sources-1-jar/commonMain/okio/FileMetadata.kt
* /okio-3-4-0-sources-1-jar/jsMain/okio/JsPlatform.kt
* /okio-3-4-0-sources-1-jar/nativeMain/okio/Cinterop.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/JvmSystemFileSystemTest.kt

* /okio-3-4-0-sources-1-jar/commonMain/okio/FileSystem.kt
* /okio-3-4-0-sources-1-jar/nativeMain/okio/PosixVariant.kt
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* /okio-3-4-0-sources-1-jar/commonMain/okio/internal/Buffer.kt
* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/Timeout.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/BufferedSink.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/RealBufferedSource.kt
* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/RealBufferedSink.kt
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 /okio-3-4-0-sources-1-jar/nonJvmMain/okio/BufferedSink.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/Okio.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/Source.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/RealBufferedSink.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/AbstractBufferedSourceTest.kt
* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/Sink.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/BufferFactory.kt
* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/Buffer.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/BufferedSinkFactory.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/Timeout.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/AbstractBufferedSinkTest.kt
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* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/BufferedSource.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/CommonOkioKotlinTest.kt
* /okio-3-4-0-sources-1-jar/commonMain/okio/BufferedSource.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/BufferCommonTest.kt
*

/okio-3-4-0-sources-1-jar/commonTest/okio/OkioTesting.kt
* /okio-3-4-0-sources-1-jar/commonTest/okio/BufferedSourceFactory.kt
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* /okio-3-4-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt

* /okio-3-4-0-sources-1-jar/jvmTest/okio/internal/Md5.kt
* /okio-3-4-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt
* /okio-3-4-0-sources-1-jar/hashFunctions/okio/internal/Sha1.kt
*
 /okio-3-4-0-sources-1-jar/jvmTest/okio/MessageDigestConsistencyTest.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/internal/Sha1.kt
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* /okio-3-4-0-sources-1-jar/nonJvmMain/okio/NonJvmPlatform.kt
* /okio-3-4-0-sources-1-jar/jvmMain/okio/-JvmPlatform.kt
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* /okio-3-4-0-sources-1-jar/commonTest/okio/ByteStringTest.kt
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* /okio-3-4-0-sources-1-jar/commonTest/okio/Utf8KotlinTest.kt
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* /okio-3-4-0-sources-1-jar/commonMain/okio/Options.kt
* /okio-3-4-0-sources-1-jar/jvmTest/okio/WaitUntilNotifiedTest.java
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* /okio-3-4-0-sources-1-jar/jvmTest/okio/BufferedSourceTest.java
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* /okio-3-4-0-sources-1-jar/jvmTest/okio/FixedLengthSourceTest.kt
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1.54 jackson-module-jakarta-xmlbind-annotations 2.19.2

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1.59 picocli 4.6.1

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```
*/
/**
     * Called when either the command, option or positional parameter that has this preprocessor configured was
     * recognized by the picocli parser.
     * <p>Implementors are free to modify one or more of the specified command line arguments before they are
     * processed by the picocli parser (or by the option's
{@link IParameterConsumer parameter consumer}, if one is specified).
     * </p><p>
     * Implementors may optionally <em>consume</em> one or more of the specified command line arguments:
     * a return value of {@code true} signals that the preprocessor consumed the parameter:
     * picocli should skip further processing of this option or positional parameter,
     * and the preprocessor implementation takes responsibility for assigning the
     * option or positional parameter a value. A return value of {@code false} means that picocli should
     * process the stack as usual for this option or positional parameter, and picocli is responsible for
     * assigning this option or positional parameter a value.
     * </p><p>
     * For a command, returning {@code true} signals that the preprocessor takes responsibility for parsing all
     * options and positional parameters for this command, and takes responsibility for validating constraints
like
     * whether all required options and positional parameters were specified.
     * A return value of {@code false} means that picocli should
     * process the stack as usual for this command, and picocli is responsible for validation.
     * Command preprocessors can signal back to the picocli parser when they detect that the user requested version
     * information or usage help by putting a value of {@code true} in the specified
     * {@code info} map for keys {@code versionHelpRequested} or {@code usageHelpRequested}, respectively.
     * </p><p>
     * If the user input is invalid, implementations should throw a {@link ParameterException}
     * with a message to display to the user.
     * </p>
     * @param args the remaining command line arguments that follow the matched argument
     *          (the matched argument is not on the stack anymore)
     * @param commandSpec the command or subcommand that was matched
(if the specified {@code argSpec} is
     *          {@code null}), or the command that the matched option or positional parameter belongs to
     * @param argSpec the option or positional parameter for which to pre-process command line arguments
     *          (may be {@code null} when this method is called for a subcommand that was matched)
     * @param info a map containing additional information on the current parser state,
     *             including whether the option parameter was attached to the option name with
     *             a `=` separator, whether quotes have already been stripped off the option, etc.
     *           Implementations may modify this map to communicate back to the picocli parser.
     *           Supported values:
     *           <table>
     *             <tr>
     *               <th>key</th><th>valid values</th><th>type</th>
     *             </tr>
     *             <tr>
      *              <td>separator</td><td>" (empty string): attached without separator, ' ' (space): not attached, (any
other string): option name was attached to option param with specified separator</td>
```

```
     *               <td>java.lang.String</td>
     *             </tr>
     *             <tr>
     *               <td>negated</td>
     *               <td>{@code true}: the option or positional parameter is a {@linkplain Option#negatable()
negated} option/parameter, {@code false}: the option or positional parameter is not a negated
option/parameter</td>
     *               <td>java.lang.Boolean</td>
     *             </tr>
     *             <tr>
     *               <td>unquoted</td>
     *               <td>{@code true}: quotes surrounding the value have already been stripped off, {@code false}:
quotes surrounding the value have not yet been stripped off</td>
     *               <td>java.lang.Boolean</td>
     *             </tr>
     *             <tr>
     *               <td>versionHelpRequested</td>
     *               <td>{@code true}: version help was requested, {@code false}: version help was not
requested</td>
     *               <td>java.lang.Boolean</td>
     *             </tr>
     *             <tr>
     *               <td>usageHelpRequested</td>
     *               <td>{@code true}: usage help was requested, {@code false}: usage help was not requested</td>
     *               <td>java.lang.Boolean</td>
     *             </tr>
     *           </table>
     * @returns true if the preprocessor consumed the parameter
     *         and picocli should skip further processing of the stack for this option or positional parameter;
     *         false if picocli should continue processing the stack for this option or positional parameter
     * @throws ParameterException if the
 user input is invalid
     */
```

Found in path(s):
* /picocli-4-6-1-sources-jar/picocli/CommandLine.java

1.60 log4j-api 2.17.1

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1.61 quartz 2.4.0

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* /quartz-2-4-0-jar/META-INF/maven/org.quartz-scheduler/quartz/pom.xml

1.62 netty-resolver 4.1.126.Final

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Built-By: root
Bnd-LastModified: 1756905899315
Specification-Title: Netty/Resolver
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurre
nt;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.nett
y.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opti

onal,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.e
clipse.jetty.alpn;version="[1,2)";resolution:=optional,org.bouncycast
le.jcajce.provider;version="[1.0,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";ver
sion="4.1.126"
Bundle-Name: Netty/Resolver
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Resolver
Bundle-Description:
 Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.resolver
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-resolver/

Found in path(s):
* /netty-resolver-4-1-126-final-jar/META-INF/MANIFEST.MF
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/opt/cola/permits/2614416872_1760733878.4079614/0/netty-resolver-4-1-126-final-jar/META-
INF/maven/io.netty/netty-resolver/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*

1.63 jackson-databind 2.19.2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-jdk18on-1-79-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.67 tika-parser-microsoft-module 3.2.2

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1.68 jakarta xml bind api 4.0.1

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German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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and uses
data from the BSD-licensed dictionary of Polish (SGJP, http://sgjp.pl/morfeusz/).

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
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* /protobuf-java-3-25-5-jar/google/protobuf/type.proto
* /protobuf-java-3-25-5-jar/google/protobuf/struct.proto
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Manifest-Version: 1.0

Created-By: mergejars
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1726689439980
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
a way of encoding structured data in an efficient yet extensible format
.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
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Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf;version="3.25.5",com.google.protobuf
.compiler;version="3.25.5";uses:="com.google.protobuf"
Import-Package: com.google.protobuf;version="[3.25,4)",sun.misc;resoluti
on:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Target-Label: //java/core:lite_runtime_only

Found in path(s):
* /protobuf-java-3-25-5-jar/META-INF/MANIFEST.MF

1.87 metrics-spi 2.31.78

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1.88 netty-transport-native-unix-common 4.1.126.Final

1.88.1 Available under license :

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/opt/cola/permits/2614416884_1760734793.2182531/0/netty-transport-native-unix-common-4-1-126-final-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*
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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0

Bundle-SymbolicName: io.netty.transport-native-unix-common
Built-By: root
Bnd-LastModified: 1756905929564
Specification-Title: Netty/Transport/Native/Unix/Common
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.uti
l;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.
ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolut
ion:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=opti
onal,org.bouncycastle.jcajce.provider;version="[1.0,2)";resolution:=o
ptional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.channel.unix;uses:="io.netty.buffer,io.netty.
channel,io.netty.channel.socket,io.netty.util";version="4.1.126"
Bundle-Name:
 Netty/Transport/Native/Unix/Common
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Transport/Native/Unix/Common
Bundle-Description: Static library which contains common unix utilitie
s.
Automatic-Module-Name: io.netty.transport.unix.common
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-transport-native-unix-commo
n/

Found in path(s):
* /netty-transport-native-unix-common-4-1-126-final-jar/META-INF/MANIFEST.MF

1.89 ojalgo 51.2.0

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1.90 apm-micrometer-plugin 1.52.2

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1.92 commons-lang3 3.14.0

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1.93 protocol-core 2.31.78

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1.103 slf4j-nop 2.0.6

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1.104 metrics-httpclient 4.2.16

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1.105 log4j2-ecs-layout 1.6.0

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1.106 hk2-api 3.1.1

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 /gson-2-10-sources-jar/com/google/gson/internal/ObjectConstructor.java
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* /gson-2-10-sources-jar/com/google/gson/JsonSerializationContext.java
* /gson-2-10-sources-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-10-sources-jar/com/google/gson/internal/$Gson$Preconditions.java
* /gson-2-10-sources-jar/com/google/gson/JsonElement.java
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* /gson-2-10-sources-jar/com/google/gson/internal/Streams.java
* /gson-2-10-sources-jar/com/google/gson/JsonSyntaxException.java

1.108 jackson-datatype-jsr310 2.15.0

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1.109 json-utils 2.31.78

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1.110 bouncy-castle 1.78

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* https://github.com/eclipse-ee4j/jersey

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* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/FakeMapper.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-5-2-sources-jar/net/minidev/json/parser/ParseException.java
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* /azure-core-1-51-0-sources-1-jar/com/azure/core/implementation/jackson/ObjectMapperFactory.java
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* /azure-core-1-51-0-sources-1-jar/com/azure/core/annotation/ReturnValueWireType.java

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* /azure-core-1-51-0-sources-1-jar/com/azure/core/models/JsonPatchOperationSerializer.java
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1.129 jackson-module-parameter-names 2.17.3

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1.130 log4j-to-slf4j 2.23.1

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1.132 jna 5.11.0

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public DomainResponse(
public DomainResponse(

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1.136 accessors-smart 2.5.2

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Found in path(s):
* /accessors-smart-2-5-2-sources-jar/net/minidev/asm/BeansAccess.java
* /accessors-smart-2-5-2-sources-jar/net/minidev/asm/DynamicClassLoader.java
* /accessors-smart-2-5-2-sources-jar/net/minidev/asm/ASMUtil.java
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1.137 simpleclient_servlet_common 0.16.0

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1.138 junit-platform-commons 1.9.3

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1.146 profiles 2.31.78

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1.147 antlr 4.13.0

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

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

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

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

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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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.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // 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)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

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

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

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

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

```
export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

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

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

   static grammarFileName = "<parser.grammarFileName>";
   static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
   static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
   static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

   constructor(input) {
      super(input);
      this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
      this.ruleNames = <parser.name>.ruleNames;
      this.literalNames = <parser.name>.literalNames;
      this.symbolicNames = <parser.name>.symbolicNames;
      <namedActions.members>
   }
```

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

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

 <funcs; separator="\n">

}

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

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

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

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

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
```

```
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

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

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


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

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

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
```

```
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

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


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

>>

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

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
```

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

>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
```

```
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

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

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

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

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

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

// LL(*) stuff

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

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

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

```
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

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

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

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

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

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

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 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>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

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

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

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

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

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

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

```
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

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

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
```

```
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

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

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

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

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

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

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

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

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
```

```
<t.escapedName>_list() {
  return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = 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.escapedName>() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
  return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.escapedName> = 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,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
    if(parent===undefined) {
        parent = null;
    }
    if(invokingState===undefined || invokingState===null) {
        invokingState = -1;
    }
    super(parent, invokingState);
    this.parser = parser;
    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
    <attrs:{a | <a>}; separator="\n">
    <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
  }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
```

```
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {

     super(parser);
      <attrs:{a | <a>;}; separator="\n">
      super.copyFrom(ctx);
  }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

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

>>

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

>>

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

>>

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

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

/** 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, isListLabel) ::= <<
localctx = new <ctxName>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>);
>>

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)>
```

```
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

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

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {

  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input)
     this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
     <namedActions.members>
  }
}

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

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
```

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

<endif>

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

>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** 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) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

/*
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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>:<column>:"

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
No license file was found, but licenses were detected in source scan.

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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
```

```
 if
( errMgr==null ) {
  System.err.println("can't find rule "+ruleName+
        " or tree structure error: "+t.toStringTree()
        );
  e.printStackTrace(System.err);
 }
 else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST
options,
                        GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t,
```

```
 GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }
```

```
protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST
 tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST
 tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }
```

```
protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected
 void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected
```

```
 void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) {
 }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
```

```
}
@after {
 exitGrammarSpec($start);
}
  :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
  )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :
   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;
```

```
option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
  :  ^(a=ASSIGN ID v=optionValue)
   {
   if ( block ) blockOption($ID, $v.start); // most specific first
   else if ( rule ) ruleOption($ID, $v.start);
   else grammarOption($ID, $v.start);
   }
  ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
  :  ID
  |  STRING_LITERAL
  |  INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :  ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
```

```
    :   ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
    |   id=ID      {importGrammar(null, $id);}
    ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
    :   ^(TOKENS_SPEC tokenSpec+)
    ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
    : ID     {defineToken($ID);}
    ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
    :   ^(CHANNELS channelSpec+)
    ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
    : ID     {defineChannel($ID);}
    ;

action
@init {
 enterAction($start);
}
```

```
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^(
 MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
   opts=optionsSpec*
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;
```

```
rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :  ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
  (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
  ARG_ACTION?
       ret=ruleReturns?
      thr=throwsSpec?
      loc=locals?
      ( opts=optionsSpec
     |  a=ruleAction {actions.add($a.start);}
     )*
      {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
          $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
          $thr.start, $opts.start,
          $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
          actions, (GrammarAST)input.LT(1));}
      ruleBlock exceptionGroup
      {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
      )
  ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
   : exceptionHandler* finallyClause?
   ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
```

```
 ;

finallyClause
@init
 {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
```

```
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      lexerOuterAlternative
     )+
    )
   ;

ruleBlock
@init
 {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
```

```
      outerAlternative
    )+
   )
  ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
```

```
  : ^(ALT lexerElement+)
  ;

lexerElement
@init {
 enterLexerElement($start);
}
@after
 {
 exitLexerElement($start);
}
 : lexerAtom
 | lexerSubrule
 |  ACTION      {actionInAlt((ActionAST)$ACTION);}
 |  SEMPRED     {sempredInAlt((PredAST)$SEMPRED);}
 |  ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |  ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
  ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
  :  terminal
  |  ^(NOT blockSet)
  |  blockSet
  |  ^(WILDCARD elementOptions)
  |  WILDCARD
  | LEXER_CHAR_SET
  |  range
  |  ruleref
  ;

actionElement
```

```
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |  ^(ACTION elementOptions)
 |  SEMPRED
 |  ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT
 elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
  ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
```

```
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | range
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT
 blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
```

```
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 | block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 | lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
```

```
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init
 {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                     {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
   ;
```

```
ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
     }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
   :  ^(STRING_LITERAL elementOptions)
         {stringRef((TerminalAST)$STRING_LITERAL);}
   | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
   | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
   | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
   ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
   : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
   ;
```

```
elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
  : ID       {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN
 ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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.
*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

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

```
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
 $context): void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
```

```
 * The default implementation does nothing.
 */
 public function visitTerminal(TerminalNode $node): void {}

 /**
 * {@inheritdoc\}
 *
 * The default implementation does nothing.
 */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

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

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
```

```
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
   return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

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

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
```

```
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Token;
use Antlr\\Antlr4\\Runtime\\TokenStream;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

final class <parser.name> extends <superClass; null="Parser">
{
 <if(parser.tokens)>
 public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
 <endif>

 <if(parser.rules)>
 public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>

 /**
  * @var array\<string>
  */
 public const RULE_NAMES = [
  <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
 ];

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

 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
 <if(namedActions.members)>

 <namedActions.members>
 <endif>


 <parser:(ctor)()>

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
```

```
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}

public function getRuleNames(): array
{
 return self::RULE_NAMES;
}

public function getSerializedATN(): array
{
 return self::SERIALIZED_ATN;
}

public function getATN(): ATN
{
 return self::$atn;
}

public function getVocabulary(): Vocabulary
    {
        static $vocabulary;

 return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
    }
<if(funcs)>

 <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>
```

```
 public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
 {
  switch ($ruleIndex) {
  <parser.sempredFuncs.values:{f|
 case <f.ruleIndex>:
  return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

   default:
    return
true;
   }
 }

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

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

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

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
```

```
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

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

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

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

parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>
```

```
/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
       return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
   $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

   $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
   <namedActions.init>
```

```
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally {

     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble) ::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args; separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>): Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | , <a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">
```

```
 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

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

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

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
```

```
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
  <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
```

```
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
   case <i><if(!choice.ast.greedy)>+1<endif>:
     <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->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 !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
```

```
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

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

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== 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.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

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

```
]

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<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->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
   }

 $this->errorHandler->reportMatch($this);
```

```
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
   throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><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_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <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 ? $this->input->getTextByTokens(<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) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r):= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
```

```
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
  return $this->getToken(<parser.name>::<t.name>, 0);
```

```
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

   return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

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

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

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) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
    return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
```

```
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
    parent::__construct($context);

    $this->copyFrom($context);
  }
<if(getters)>

  <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

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

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
  }

 return $visitor->visitChildren($this);
```

```
}
>>

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

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

// 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, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
```

```
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>
```

```
 /**
  * @var array\<string>
  */
 public const CHANNEL_NAMES = [
  'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
 ];

 /**
  * @var array\<string>
  */
 public const MODE_NAMES = [
  <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
 ];

 /**
  * @var array\<string>
  */
 public const RULE_NAMES = [
  <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
 ];

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

 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
<if(namedActions.members)>

 <namedActions.members>
<endif>

 public function __construct(CharStream $input)
 {
  parent::__construct($input);

  self::initialize();

  $this->interp
 = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
  }
```

```
 RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA = $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary(): Vocabulary
{
 static $vocabulary;

 return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}

public function getGrammarFileName(): string
{
 return '<lexer.grammarFileName>';
}

public function getRuleNames(): array
{
 return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 /**
  * @return array\<string>
  */
 public function getChannelNames(): array
 {
  return self::CHANNEL_NAMES;
 }

 /**
  * @return array\<string>
```

```
  */
 public function getModeNames(): array
 {
  return self::MODE_NAMES;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
 {
  return self::vocabulary();
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\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) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
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*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
```

```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
[The "BSD license"]
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 modification, are permitted provided that the following conditions
are met:
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```

```
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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

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

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

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

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

alternative returns [ATNFactory.Handle p]
```

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

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

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

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |  ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |  SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |  ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |  ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

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

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
```

```
  {$p = factory.listLabel($element.p);}
 ;

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

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

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  |   LEXER_CHAR_SET
 ;

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

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

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

terminal returns [ATNFactory.Handle p]
```

```
  :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
  | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

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

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
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*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2014 Eric Vergnaud
*  All rights reserved.
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*  modification, are permitted provided that the following conditions
*  are met:
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```

```
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** 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
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." 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">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

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

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
```

```
 <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  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> ]

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

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

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

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">
```

```
<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

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



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
      action(localctx, actionIndex)
  else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
```

```
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

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

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
  super().__init__(input, output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>
```

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

<ruleCtx>

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

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

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

>>

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

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

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _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(tokens=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(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

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

<!else if ( !(<followExpr>) ) <error>!>
>>


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

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff
```

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

>>

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

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
```

```
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) != 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>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>
```

```
cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

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)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <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) ::= <<
except <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.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
```

```
RulePropertyRef_parser(r)  ::= "self"

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

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

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

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(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.escapedName>(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.escapedName>(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.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
     super().__init__(parent, invokingState)
     self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
    def copyFrom(self, ctx:ParserRuleContext):
        super().copyFrom(ctx)
        <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
        super().__init__(parser)
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <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.escapedName>"

/** 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, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>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>)
>>

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

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
```

```
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO
else:
  from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<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) ]

<if(lexer.escapedChannels)>
  <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

   channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  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, output:TextIO = sys.stdout):
     super().__init__(input, output)
     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)
 ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

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 -->
```

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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

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

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
```

```
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

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

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
```

```
  (
   o=outerAlternative
   {if ($o.isLeftRec) $isLeftRec = true;}
   {currentOuterAltNumber++;}
  )+
 )
;

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

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

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

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

nonLeftRecur
  :  ^(ALT elementOptions? element+)
  ;

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

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

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

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)

  ;

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

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

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

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

```
 | TOKEN_REF
 ;

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

block
   : ^(BLOCK ACTION? alternative+)
   ;

alternative
 : ^(ALT elementOptions? element+)
   ;

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

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*
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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] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
```

```
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions?
 EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
   ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
```

```
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
| block[null, null]     {$omos = $block.omos;}
  ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
  : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
  ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos =
```

```
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

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

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
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*  modification, are permitted provided that the following conditions
*  are met:
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*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
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*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
```

```
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @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>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

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

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
```

```
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
 /**
  *
 {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
```

```
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
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); \}}; 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) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
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>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

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

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

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }
```

```
 @Override
 public ATN getATN() { return _ATN; }

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

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

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
```

```
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i]
 = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
```

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

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
```

```
<currentRule.escapedName>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(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.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

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

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

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

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

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

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

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

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration)
 ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
```

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

// LL(*) stuff

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

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
```

```
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

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

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

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

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

InvokeRule(r, argExprsChunks)
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
>>

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

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

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

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> =
 }><endif>matchWildcard();
>>
```

```
// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
```

```
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

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

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

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

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

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
```

```
>>
ContextRuleListGetterDecl(r)  ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)  ::= <<
public <r.ctxName> <r.escapedName>(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,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> 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.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
```

```
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<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.escapedName><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.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
```

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

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

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

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
```

```
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
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();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public static final int
  <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public static final int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static String[]
 channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

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

 private static String[] makeRuleNames() {
  return new String[] {
   <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();
```

```
 <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[] getChannelNames() { return channelNames; }

 @Override
 public String[] getModeNames()
 { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

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

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
```

```
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

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

codeFileExtension() ::= ".java"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-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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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** 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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java
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```

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*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.java
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*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/StarBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TestRig.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
*

/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Wildcard.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Grammar.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeViewer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Attribute.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ParserFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/MutableInt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/Trees.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Graph.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/CharSupport.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/Target.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/Tool.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
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/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
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/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ActionTranslator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Action.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Utils.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LabeledOp.java
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 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
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*/

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

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

@members {
public String currentRuleName;
```

```
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

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

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

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

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

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

```
| {!inContext("RULE")}? // if not rule block and > 1 alt
 ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
 -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
 |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
 | {!inLexer}?=> ^(TOKEN_REF elementOptions)
 | {!inLexer}?=>   TOKEN_REF
 | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
&&
   CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
 )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

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

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.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>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
 separator="\n">
}
>>

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

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

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

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

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

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

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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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
import sys

<namedActions.header>
<parser>
```

```
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
from antlr4 import *
<header>

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

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
  return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>
```

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

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

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

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

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

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

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
```

```
      if self._predicates == None:
         self._predicates = dict()
<parser.sempredFuncs.values:{f
|
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
         raise Exception("No predicate with index:" + str(ruleIndex))
      else:
         return pred(localctx, predIndex)

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



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
      action(localctx, actionIndex)
  else:
      raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
   if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))
```

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

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
  super(<parser.name>, self).__init__(input, output=output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
   if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

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

```
<ruleCtx>

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

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName>}>):

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

>>

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

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

def <currentRule.escapedName>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a
| , <a.escapedName>}>)
  _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(tokens=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(tokens=look)>
  <alt>
```

```
  pass}; separator="\nel">
else:
  pass
>>

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

<!else if ( !(<followExpr>) ) <error>!>
>>


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

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
```

```
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ ==
 <i>:
   <alt>
   pass
}; separator="\nel">

>>

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

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
      <iteration>
      <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while
 _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
```

```
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
 bits.shift)>) & <bits.calculated>) != 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>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
```

```
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

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)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <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)
```

```
 ::= <<
except <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.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is
 None else self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
```

```
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

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

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

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl)
 ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(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.escapedName>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(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.escapedName>(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,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.escapedName>=None}>):
     super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)

 self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
     super(<parser.name>.<struct.name>, self).copyFrom(ctx)
     <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
```

```
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<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.escapedName> = <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.escapedName>"

/** 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, isListLabel) ::= <<
```

```
localctx = <parser.name>.<ctxName>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>)
>>

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
import sys

<namedActions.header>
```

```
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>

<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) ]

<if(lexer.escapedChannels)>
   <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  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, output=sys.stdout):

  super(<lexer.name>, self).__init__(input, output=output)
     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) ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated 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.*;
import org.antlr.v4.runtime.misc.Interval;
}


@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
  boolean withinOptionsBlock = false;
  while (i >= 0 && i < n) {
   int ttype = tokens.get(i).getType();
   if (withinOptionsBlock) {
    // Ignore rule options content
    if (ttype == OPTIONS) {
     withinOptionsBlock = false;
    }
   }
   else {
    if (ttype == RBRACE) {
     withinOptionsBlock = true;
    }
    else 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 descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
       // Single line comment, possibly with embedded src/line directives
       // in a similar style to the C pre-processor, allowing generated
       // code to refer the programmer back to the original source code
       // in case of error.
       //

      '/'
         (
            (' $ANTLR')=> ' $ANTLR' SRC
          | ~NLCHARS*
         )

       | // Multi-line comment, which may be a documentation comment
         // if it starts /** (note that we protect against accidentally
         // recognizing a comment /**/ as a documentation comment
         //
         '*' (
              { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
            | { true }?=>  // Required to cover all alts with predicates
             )
```

```
            // Should we support embedded multiline comments here?
            //
            (
               // Pick out end of multiline comment and exit the loop
               // if we find it.
               //
               {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

                 // Anything else other than the non-greedy match of
                 // the comment close sequence
                 //
                 .

            )*
          (
               // Look for the comment terminator, but if it is accidentally
               // unterminated, then we will hit EOF, which will trigger the
               // epsilon alt and hence we can issue an error message relative
               // to the start of the unterminated multi-line comment
               //
               '*/'

             | // Unterminated comment!
               //
               {
                 // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
               }
           )

        | // There was nothing that made sense following the opening '/' and so
          // we issue an error regarding the malformed comment
          //
          {
            // TODO: Insert error message relative to comment start
            //
          }
      )
      {
        // We do not wish to pass the comments in to the parser. If you are

        // writing a formatter then you will want to preserve the comments off
        // channel, but could just skip and save token space if not.
        //
        $channel=COMMENTS_CHANNEL;
      }
    ;
```

```
ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ---------------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
        (

          ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
      )*

      ']'
 ;
```

```
// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION ( '?' {$type = SEMPRED;} )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited
 by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
```

```
    // an error message about the brace that we believe to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error
and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
       //
       ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
       // type comments.
       //
       COMMENT

     | // What appears to be a literal
       //
       ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
      //
      ACTION_ESC

    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
    {
       // TODO: Report imbalanced {}
       System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
```

```
is missing
 a }");
    }
 )
  ;


// Keywords
// --------
// Keywords 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'             ;
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     : '?'               ;
STAR         : '*'               ;
PLUS         : '+'               ;
PLUS_ASSIGN  : '+='              ;
OR           : '|'               ;
DOLLAR       : '$'               ;
DOT      : '.'               ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE        : '..'              ;
AT           : '@'               ;
POUND        : '#'               ;
NOT          : '~'               ;
RBRACE       : '}'               ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
   {
   if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
   else $type = RULE_REF;
   }
  ;

fragment
NameChar    :   NameStartChar

    |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
```

```
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do
 not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;
```

```
// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences
 so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
   :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
      (    '\''
      |    // Unterminated string literal
           {
```

```
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.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

        | // A
 Swift/Hack style Unicode escape sequence
          UNICODE_EXTENDED_ESC

      | // An illegal escape sequence
        ~('b'|'t'|'n'|'f'|'r'|'\"'|'\\'|'u') // \x for any invalid x (make sure to match char here)
        {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
        }
    )
  ;

fragment
UNICODE_ESC
@init {
```

```
// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get
4. We cannot
      // use an infinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
   (
     (
       HEX_DIGIT  { hCount++; }
        (
           HEX_DIGIT  { hCount++; }
          (
             HEX_DIGIT  { hCount++; }
             (
                // Four valid hex digits, we are good
                //
                HEX_DIGIT { hCount++; }

              | // Three valid digits
             )

           | // Two valid digits
          )

         | // One valid digit
      )
       )
      | // No valid hex digits at all
   )

   // Now check the digit count and issue an error if we need to
   //
   {
    if (hCount < 4) {
   Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
   String lastChar = input.substring(badRange.b,
badRange.b);
   if ( lastChar.codePointAt(0)=='\' ) {
    badRange.b--;
```

```
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
     }
    }
   ;

fragment
UNICODE_EXTENDED_ESC
   :   'u{' // Leadin for unicode extended escape sequence

       HEX_DIGIT+ // One or more hexadecimal digits

       '}' // Leadout for unicode extended escape sequence

       // Now check the digit count and issue an error if we need to
       {
          int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
          if (numDigits > 6) {
             Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
             t.setText(t.getText());
             t.setLine(input.getLine());
              t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
             grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
   }
       }
   ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
   : (
      ' '
       | '\t'
       | '\r'
       | '\n'
       | '\f'
     )+
```

```
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
   : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the 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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
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*  Copyright (c) 2012-2016 Sam Harwell
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
```

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

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>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

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>}.
```

```
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

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

import Antlr4


/**
* 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.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |
```

```
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
```

```
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

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

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
```

```
 <file.visitorNames:{lname
 |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return 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) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
 <endif>

 <accessLevelNotOpen(parser)>
 <if(parser.rules)>
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
```

```
 <endif>

 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

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

 override <accessLevelOpenOK(parser)>
 func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

 override <accessLevelOpenOK(parser)>
 func getRuleNames() -> [String] { return <parser.name>.ruleNames
 }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

 override <accessLevelOpenOK(parser)>
 func getATN() -> ATN { return <parser.name>._ATN }

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

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
    default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>
```

```
vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
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>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}
```

```
override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
  case <index>:return <actions.(index)>}; separator="\n">
    default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType> {
```

```
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {

   <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
   <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
```

```
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
 var _alt: Int
<endif>
 <code>
 <postamble; separator="\n">
 <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
 _localctx.exception = re
 _errHandler.reportError(self, re)
 try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
```

```
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=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(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

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

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

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

```
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
```

```
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

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

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

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

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

```
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<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.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
```

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

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
   throw 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.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

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

TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
```

```
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
```

```
 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <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.escapedName>"

/** 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>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4
```

```
<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
   }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>

 <if(lexer.escapedChannels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.escapedModeNames))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static
 let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 ]

 <accessLevelNotOpen(lexer)>
 static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 ]

 <accessLevelNotOpen(lexer)>
 static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]
```

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

 <namedActions.members>

 override <accessLevelOpenOK(lexer)>
 func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
 }

 <accessLevelNotOpen(lexer)>
 required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
 }

 override <accessLevelOpenOK(lexer)>
 func
 getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

 override <accessLevelOpenOK(lexer)>
 func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

 override <accessLevelOpenOK(lexer)>
 func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

 override <accessLevelOpenOK(lexer)>
 func getChannelNames() -> [String] { return <lexer.name>.channelNames }

 override <accessLevelOpenOK(lexer)>
 func getModeNames() -> [String] { return <lexer.name>.modeNames }

 override <accessLevelOpenOK(lexer)>
 func getATN() -> ATN { return <lexer.name>._ATN }

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

 <accessLevelNotOpen(lexer)>
 static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
```

```
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** 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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.

```
// Copyright 2016-2022 The ANTLR Project. All rights reserved.
// Licensed under the BSD-3-Clause license. See LICENSE file in the project root for license information.
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
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*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
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*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
```

```
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;
```

```
LINE_COMMENT
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
  ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
```

```
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2013 Terence Parr
*  Copyright (c) 2013 Sam Harwell
*  All rights reserved.
*
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*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
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*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

// 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.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

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

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

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
```

```
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

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

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

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
```

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

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

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

```
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

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

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

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

```
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<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] <file.parserName>.<lname; format="cap">Context
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

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

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

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
```

```
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

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

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

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

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

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

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <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 <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

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

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
```

```
>>

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

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

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
```

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
```

```
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

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

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

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

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

```
 ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

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

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

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

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

```
}
>>

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

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

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

// LL(*) stuff

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

```
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

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

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
```

```
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

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

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

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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.tokens contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

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

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

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

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

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>
```

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

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

// ACTION STUFF

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

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

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

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

```
// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
```

```
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

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

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
```

```
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
<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.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
| this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>
```

```
AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
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) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
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> <d.escapedName><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><x.escapedName>"

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

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
```

```
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

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

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


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
```

```
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

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

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public const int
  <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public const int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static string[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 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 <lexer.name>(ICharStream input)
 : this(input, Console.Out, Console.Error) { }

 public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
 :
```

```
 base(input, output, errorOutput)
 {
  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[] ChannelNames { get { return channelNames; } }

 public override string[] ModeNames { get { return modeNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <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 int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

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
]

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.
*/

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

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

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

wantsSingleLineMessage() ::= "true"

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1.148 aws-json-protocol 2.31.78

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1.156 apm-rabbitmq-plugin 1.52.2

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1.158 simpleclient_servlet_jakarta 0.16.0

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1.159 nuprocess 2.0.6

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* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/osx/OsxProcess.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/NuProcessFactory.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/NuAbstractProcessHandler.java
*
 /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/osx/ProcessKqueue.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/linux/LibEpoll.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/linux/EpollEvent.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/NuProcessHandler.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/windows/ProcessCompletions.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/internal/BasePosixProcess.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/windows/WindowsProcess.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/NuProcessBuilder.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/osx/LibKevent.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/linux/LinuxProcess.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/internal/BaseEventProcessor.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/osx/OsxProcessFactory.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/windows/NuKernel32.java
*
 /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/internal/IEventProcessor.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/linux/ProcessEpoll.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/linux/LinProcessFactory.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/NuProcess.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/internal/LibC.java
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* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/internal/ReferenceCountedFileDescriptor.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/codec/NuCharsetEncoder.java
* /nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/codec/NuCharsetEncoderHandler.java
*
/nuprocess-2-0-6-sources-3-jar/com/zaxxer/nuprocess/codec/NuCharsetDecoder.java
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1.160 jsr305 3.0.0

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1.161 reflections 0.9.12

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* /reflection-0-9-12-sources-jar/com/nu/art/reflection/utils/ClassInstantiationUtility.java
*
 /reflection-0-9-12-sources-jar/com/nu/art/reflection/injector/Injector.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/utils/GenericMap.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/injector/InjectionManager.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/ClassLoaderCyclicException.java

* /reflection-0-9-12-sources-jar/com/nu/art/reflection/hierarchy/HierarchyModelNode.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/annotations/ReflectiveInitialization.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/MethodInvocationException.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/MethodNotFoundException.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/extractor/AnnotatbleExtractor.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/ConstructorNotFoundException.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/hierarchy/HierarchyModel.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/hierarchy/TypeHierarchy.java
*
/reflection-0-9-12-sources-jar/com/nu/art/reflection/extractor/ExtractionManager.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/JarClassLoader.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/ClassInstantiationException.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/ClassLoaderManager.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/ReflectiveTools.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/ClassesLoader.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/BidirectionalAction.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/BidirectionalActionImpl.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/DirectoryClassLoader.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/WrongParameterType.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/AbsClassLoader.java
*
/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/ART_Tools.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/utils/MethodInvocationUtility.java
* /reflection-0-9-12-sources-jar/com/nu/art/reflection/extractor/Extractor.java

1.162 apm-opentelemetry-metrics-bridge-v1_14 1.52.2

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analysis/common/src/java/net/sf/snowball
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The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
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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
See http://members.unine.ch/jacques.savoy/clef/index.html.

The
German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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Stempel analyzer (stempel) includes BSD-licensed software developed
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The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See https://github.com/carrot2/carrot2.

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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
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==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==

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which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

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http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (https://github.com/lz4/lz4/tree/dev/lib) compression format for Lucene's DataInput/DataOutput abstractions.

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1.164 apm-logback-plugin-impl 1.52.2

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1.165 byte-buddy-agent 1.14.19

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1.166 jackson-dataformat-yaml 2.17.2

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1.167 tika-parser-pdf-module 3.2.2

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Source Code

The project maintains the following source code repositories:

* https://github.com/jakartaee/rest

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javaee-api (7.0)

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JUnit (4.11)

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1.169 hibernate-community-dialects 6.2.6.Final

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/hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/Sybase11Dialect.java
* /hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/PostgreSQL94Dialect.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/pagination/SkipFirstLimitHandler.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/identity/CUBRIDIdentityColumnSupport.java
* /hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/MaxDBDialect.java
* /hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/DerbyTenFiveDialect.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/sequence/CUBRIDSequenceSupport.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/sequence/SequenceInformationExtractorIngresDatabaseImpl.java
*
/hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/CUBRIDDialect.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/identity/FirebirdIdentityColumnSupport.java
* /hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/Ingres9Dialect.java
* /hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/DB2zLegacyDialect.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/sequence/RDMSSequenceSupport.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/CommunityDialectSelector.java
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jar/org/hibernate/community/dialect/sequence/MaxDBSequenceSupport.java
* /hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/MariaDB102Dialect.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/identity/SQLiteIdentityColumnSupport.java
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/hibernate-community-dialects-6-2-6-final-sources-jar/org/hibernate/community/dialect/OracleLegacyDialect.java
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jar/org/hibernate/community/dialect/identity/Ingres9IdentityColumnSupport.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/RDMSOS2200Dialect.java
* /hibernate-community-dialects-6-2-6-final-sources-
jar/org/hibernate/community/dialect/sequence/SequenceInformationExtractorMimerSQLDatabaseImpl.java
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jar/org/hibernate/community/dialect/PostgresPlusLegacyDialect.java
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1.173 tika-parser-miscoffice-module 3.2.2

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1.179 tika-parser-text-module 3.2.2

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* /google-api-services-storage-v1-rev20220705-2-0-0-sources-1-jar/com/google/api/services/storage/model/HmacKey.java
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* /google-api-services-storage-v1-rev20220705-2-0-0-sources-1-jar/com/google/api/services/storage/StorageRequest.java
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* /google-api-services-storage-v1-rev20220705-2-0-0-sources-1-jar/com/google/api/services/storage/model/Expr.java
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* /google-api-services-storage-v1-rev20220705-2-0-0-sources-1-jar/com/google/api/services/storage/model/ObjectAccessControl.java
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No license file was found, but licenses were detected in source scan.

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Found in path(s):
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* /google-api-services-storage-v1-rev20220705-2-0-0-sources-1-jar/target/google-api-services-storage-v1-rev20220705-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Bucket.IamConfiguration.UniformBucketLevelAccess.html
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1.184 jakarta-annotation-api 3.0.0

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* https://github.com/jakartaee/common-annotations-api

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1.185 stax 4.2.2

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1.186 s3 2.31.78

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1.187 error_prone_annotations 2.0.2

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*/
```

Found in path(s):
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/NoAllocation.java
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

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*/

Found in path(s):
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java
*
 /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /error-prone-annotations-2-0-2-sources-jar/com/google/errorprone/annotations/ForOverride.java

1.188 mail 1.6.3

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From myfriend@php.net Thu Nov 13 11:38:45 2003
Return-Path: <myfriend@php.net>
Received: from localhost (receiver@localhost.localdomain [127.0.0.1])
 by kossu.home.receiverrethans.nl (8.12.9/8.12.9/Debian-5) with ESMTP id hADAYKok030169
 for <receiver@localhost>; Thu, 13 Nov 2003 11:38:45 +0100
Received: from mail.jdimedia.nl [212.204.192.51]
 by localhost with POP3 (fetchmail-6.2.4)
 for receiver@localhost (single-drop); Thu, 13 Nov 2003 11:38:45 +0100 (CET)
Received: from php.net (pb2.pair.com [216.92.131.5])
 by jdi.jdimedia.nl (8.12.10/8.12.10) with SMTP id hA6HuAcR003687
 for <php@receiverrethans.nl>; Thu, 6 Nov 2003 18:56:11 +0100
Received: (qmail 24340 invoked by alias); 6 Nov 2003 17:56:10 -0000
Delivered-To: receiver@pair2.php.net
Received: (qmail 24317 invoked by alias); 6 Nov 2003 17:56:09 -0000
Delivered-To: alias-scan-receiver@php.net
Delivered-To: receiver@php.net
Received: (qmail 24012 invoked from network);
 6 Nov 2003 17:56:05 -0000
Received: from unknown (HELO kirin.trondheim.example.no) (80.202.216.25)
 by pb2.pair.com with SMTP; 6 Nov 2003 17:56:05 -0000
Received: from localhost (kirin.trondheim.example.no [127.0.0.1])
 by kirin.trondheim.example.no (8.12.8/8.12.5) with ESMTP id hA6Hu4sK001537
 for <receiver@php.net>; Thu, 6 Nov 2003 18:56:05 +0100
Subject: sawfish stuff
From: "Stig S. Bakken" <myfriend@php.net>

To: Derick Rethans <receiver@php.net>
Content-Type: multipart/mixed; boundary="=-2i2F/vg6h1WtQWmgdHTG"
Message-Id: <1068141364.1480.4.camel@kirin.trondheim.example.no>
Mime-Version: 1.0
X-Mailer: Ximian Evolution 1.4.5
Date: Thu, 06 Nov 2003 18:56:04 +0100
X-Bogosity: No, tests=bogofilter, spamicity=0.414486, version=0.9.1.2
Status: RO
X-Status:
X-Keywords:
X-UID: 12631

--=-2i2F/vg6h1WtQWmgdHTG
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Derick,

Enjoy :-)

--
"Nearly all men can stand adversity, but if you want to test a man's
character,
 give him power." - Abraham Lincoln

--=-2i2F/vg6h1WtQWmgdHTG
Content-Disposition: attachment; filename=.sawfishrc
Content-Type: text/plain; name=.sawfishrc; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

;; -*- lisp -*-

(setq
move-snap-edges t
image-load-path (append '("~/.gnome/pixmaps") image-load-path)
load-path (append '("~/.sawfish") load-path)
)

(require 'gimme)
;;(require 'sawfish-defaults)

--=-2i2F/vg6h1WtQWmgdHTG
Content-Disposition: attachment; filename=gimme.jl
Content-Type: application/octet-stream; name=gimme.jl
Content-Transfer-Encoding: 8bit

;; gimme.jl -- fast window access keyboard accelerators -*- lisp -*-

```
;; $Id: gimme.jl,v 1.1 2002/04/15 08:38:57 ssb Exp $
;;
;; Copyright (C) 2000, 2001, 2002 Stig Sfther Bakken <myfriend@php.net>
;;
;; This file is not part of sawfish.
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;;

;; How to use:
;;
;; 1. Save this file as ~/.sawfish/gimme.jl
;;
;; 2. Add the following to ~/.sawfishrc:
;;    (require 'gimme)
;;
;; 3. Customize your bindings to use some of the gimme functions, for
;;    example:
;;
;;      M-S-e gimme-exact-class "Emacs" "emacs"
;;
;;    When you hit meta+shift+e, sawfish will focus to the first found
;;    Emacs window, switching workspaces if necessary, or run "emacs"
;;    in the background if not found.
;;
;; Configure sawfish with the programs you
 use every day, disconnect
;; your mouse and see how long you can do without it.
;;
(provide 'gimme)



;; customization options

(defgroup gimme "Gimme" :group focus)
```

```
(defcustom gimme-ignore-iconified-windows t
 "Ignore windows that are iconified."
 :group (focus gimme)
 :type boolean)


;; code

(define (ssb-find-windows-by what query info-func match-func)
 "Returns a list of windows whose class or name matches QUERY."
 (filter (lambda (win)
     (and
      (or (not (window-get win 'iconified))
  (not gimme-ignore-iconified-windows))
      (match-func query (info-func win))))
  (managed-windows)))

(define (ssb-select-window-by what name)
 "Finds a single window based on name or class.  If several matching
windows exist, a single one is selected: if the currently focused
window matches, the next window is selected (wrapping if necessary),
if not the first matching window is selected. WHAT can be one of
`class', `exact-class', `name' or `exact-name'."
 (let* ((info-func

  (if (or (eq what 'class) (eq what 'exact-class))
      (lambda (w) (aref (get-x-text-property w 'WM_CLASS) 1))
    window-name))
  (match-func
   (if (or (eq what 'exact-class) (eq what 'exact-name))
       string=
    string-match))
  (current (info-func (input-focus)))
  (windows (ssb-find-windows-by 'what name info-func match-func))
  (loopwins windows))
   (catch 'selected
    (when (null windows)
 (throw 'selected nil))
    (when (string-match name current)
  (while loopwins
   (when (and (eq (car loopwins) (input-focus))
       (cdr loopwins))
    (throw 'selected (car (cdr loopwins))))
   (set 'loopwins (cdr loopwins))))
    (throw 'selected (car windows)))))

(define (ssb-goto-window win)
```

```
 (when (not (window-get win 'sticky))
   (select-workspace (nearest-workspace-with-window win current-workspace)))
 (when (window-get win 'iconified)
   (show-window win))
;;  (when cycle-raise-windows
;;    (raise-window win))
 (raise-window win)
 (warp-cursor-to-window win)
;;
  (when cycle-warp-pointer
;;    (warp-cursor-to-window win))
 (when (window-get win 'shaded)
   (unshade-window win))
;;  (when (and cycle-focus-windows (window-really-wants-input-p win))
;;    (set-input-focus win))
 (set-input-focus win)
 )

(define (gimme what name #!optional command)
 (let*
     ((win (if (eq what 'window)
  name (ssb-select-window-by what name))))
   (if win
 (ssb-goto-window win)
     (if command
   (system (concat command " &"))))))

(define (gimme-name name #!optional command)
 "Focus on a window with NAME as part of its name/title, or start PROGRAM.
If focus is already on a matching window, cycle to the next"
 (gimme 'name name command))

(define-command 'gimme-name gimme-name
 #:spec "sWindow name:\nsCommand:"
 #:type `(and (labelled ,(_ "Window name:") string)
       (labelled ,(_ "Command:") string)))

(define (gimme-class class #!optional command)
 "Focus on a window with CLASS as part of its class, or start PROGRAM.
If focus is already on
 a matching window, cycle to the next"
 (gimme 'class class command))

(define-command 'gimme-class gimme-class
 #:spec "sWindow class:\nsCommand:"
 #:type `(and (labelled ,(_ "Window class:") string)
       (labelled ,(_ "Command:") string)))
```

```
(define (gimme-exact-name name #!optional command)
 "Focus on a window with NAME as its exact name/title, or start PROGRAM.
If focus is already on a matching window, cycle to the next"
 (gimme 'exact-name name command))

(define-command 'gimme-exact-name gimme-exact-name
 #:spec "sWindow name:\nsCommand:"
 #:type `(and (labelled ,(_ "Window name:") string)
       (labelled ,(_ "Command:") string)))

(define (gimme-exact-class class #!optional command)
 "Focus on a window with CLASS as its exact class, or start PROGRAM.
If focus is already on a matching window, cycle to the next"
 (gimme 'class class command))

(define-command 'gimme-exact-class gimme-exact-class
 #:spec "sWindow class:\nsCommand:"
 #:type `(and (labelled ,(_ "Window
 class:") string)
       (labelled ,(_ "Command:") string)))

--=-2i2F/vg6h1WtQWmgdHTG--
```

Found in path(s):
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parser/data/various/test-text-lineendings
No license file was found, but licenses were detected in source scan.

<acv></acv><b><font size="5">Confidentiality Assured

Found in path(s):
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parser/data/various/multipart-report
No license file was found, but licenses were detected in source scan.

* @copyright Copyright (C) 2005-2009 eZ Systems AS. All rights reserved.
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Found in path(s):
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/interfaces/parser_set.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/transport_connection.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/imap_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/imap_set_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/mta/transport_mta.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/pop3/pop3_set.php

* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_pop3_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/interfaces/part_parser.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_variable_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/exceptions/no_such_message.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/multipart_mixed_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/exceptions/invalid_limit.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/multiparts/multipart_alternative.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/multipart_alternative_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/interfaces/part_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parser.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/multipart_digest_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/multiparts/multipart_digest.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/transport_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/options/transport_options_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parser/parser_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_mbox_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_smtp_auth_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_smtp_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/rfc822_digest_parser.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/file.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/internal/charset_convert.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/exceptions/transport_smtp_exception.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/wrappers/imap_custom_wrapper.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/smtp/transport_smtp.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/tools.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parser/walk_context_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/mbox/mbox_transport.php

* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_file_test.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parser/parts/multipart_mixed_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/composer_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/fileparts/stream_file.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/multipart.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/mta/mta_transport.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/fileparts/virtual_file.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/structs/content_disposition_header.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/exceptions/mail_exception.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/mail_test.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/interfaces/transport.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/transport_storage_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parts/stream_file_part_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/shutdown_handler.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/composer_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/pop3/pop3_transport.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/header_folder_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parts/multipart_digest_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/options/parser_options_test.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/file_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/wrappers/imap_wrapper.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/exceptions/transport_exception.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/delivery_status.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parts/multipart_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parts/file_part_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parser/rfc2231_implementation_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parts/text_part_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/imap/imap_transport.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/suite.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/storage/storage_set.php

* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/tutorial_examples.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/parser/parts/multipart_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/parser/rfc2231_implementation.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/tests/transports/transport_mta_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/composer.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/tools_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/imap/imap_set.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/parts/multiparts/multipart_related.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/text.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/internal/header_folder.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/exceptions/offset_out_of_range.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/mail_autoload.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/fileparts/disk_file.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/parser/parts/multipart_related_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/tests/parser/headers_holder_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/mail.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/mbox/mbox_set.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/tests/transports/wrappers/smtp_wrapper.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/tests/transports/transport_imap_uid_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/transports/smtp/smtp_transport.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/parser/parts/delivery_status_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/rfc822_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/rfc822_digest.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/src/parts/multiparts/multipart_report.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/file/file_set.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/tests/transports/transport_imap_test.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/smtp_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/structs/walk_context.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/parts/rfc822_digest_test.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/text_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-
296e12c/tests/parts/virtual_file_part_test.php

* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/pop3_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/options/parser_options.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/parts/multipart_report_parser.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/interfaces/part.php
*
/zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parts/multiparts/multipart_mixed.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/transports/variable/var_set.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/tests/transports/wrappers/pop3_wrapper.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/structs/mail_address.php
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/src/parser/headers_holder.php
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$mail->body = new ezcMailText("Confidential" . ezcMailTools::lineBreak() . "DO NOT READ");

Found in path(s):
* /zetacomponents-mail-1-6-3-0-g8d06f05-tar-gz/zetacomponents-Mail-296e12c/docs/tutorial/tutorial_tools.php

1.189 feign-core 13.2.1

1.189.1 Available under license :

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin 5.1.9
Build-Jdk-Spec: 21
Bnd-LastModified: 1707288004327
Bundle-Description: Feign Core
Bundle-DocURL: https://github.com/openfeign
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Feign Core
Bundle-SymbolicName: io.github.openfeign.feign-core
Bundle-Vendor: OpenFeign
Bundle-Version: 13.2.1
Export-Package: feign;uses:="feign.codec,feign.querymap,javax.net.ssl";v
ersion="13.2.1",feign.auth;uses:=feign;version="13.2.1",feign.codec;use
s:=feign;version="13.2.1",feign.optionals;uses:="feign,feign.codec";ver
sion="13.2.1",feign.querymap;uses:="feign,feign.codec";version="13.2.1"
,feign.stream;uses:="feign,feign.codec";version="13.2.1",feign.template
;uses:=feign;version="13.2.1",feign.utils;version="13.2.1"
Import-Package: feign,feign.codec,feign.querymap,feign.template,javax.ne
t.ssl
Require-Capability:

osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /feign-core-13-2-1-jar/META-INF/MANIFEST.MF
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-->

Found in path(s):
* /feign-core-13-2-1-jar/META-INF/maven/io.github.openfeign/feign-core/pom.xml

1.190 st4 4.0.8

1.190.1 Available under license :

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

/** Build an AST from a single StringTemplate template */
parser grammar STParser;

options {
 language=Java;
 tokenVocab=STLexer;
 TokenLabelType=CommonToken;
 output=AST;
 ASTLabelType=CommonTree;
}

tokens {
 EXPR; OPTIONS; PROP; PROP_IND; INCLUDE; INCLUDE_IND; EXEC_FUNC; INCLUDE_SUPER;
 INCLUDE_SUPER_REGION; INCLUDE_REGION; TO_STR; LIST; MAP; ZIP; SUBTEMPLATE; ARGS;
 ELEMENTS;
 REGION; NULL; INDENTED_EXPR;
 }

@header {
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.ErrorManager;
import org.stringtemplate.v4.misc.ErrorType;
}

@members {
ErrorManager errMgr;
Token templateToken;
public STParser(TokenStream input, ErrorManager errMgr, Token templateToken) {
 this(input);
 this.errMgr = errMgr;
 this.templateToken = templateToken;
}
@Override
protected Object recoverFromMismatchedToken(IntStream input, int ttype, BitSet follow)
 throws RecognitionException
```

```
{
 throw new MismatchedTokenException(ttype, input);
}
}

@rulecatch {
  catch (RecognitionException re) { throw re; }
}

templateAndEOF : template EOF -> template? ;

template : element* ;

element
 : {input.LT(1).getCharPositionInLine()==0}? INDENT? COMMENT NEWLINE -> // throw away
 | INDENT singleElement -> ^(INDENTED_EXPR INDENT singleElement?) // singleElement is optional to handle
error returning nil
 | singleElement
 | compoundElement
 ;

singleElement
 : exprTag
 | TEXT
 | NEWLINE
 | COMMENT!
 // throw away
 ;

compoundElement
 : ifstat
 | region
 ;

exprTag
 : LDELIM expr ( ';' exprOptions )? RDELIM
  -> ^(EXPR[$LDELIM,"EXPR"] expr exprOptions?)
 ;

region
@init {Token indent=null;}
 : i=INDENT? x=LDELIM '@' ID RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
  template
  INDENT? LDELIM '@end' RDELIM
  // kill \n for <@end> on line by itself if multi-line embedded region
  ({$region.start.getLine()!=input.LT(1).getLine()}?=> NEWLINE)?
  -> {indent!=null}?
     ^(INDENTED_EXPR $i ^(REGION[$x] ID template?))
```

```
  ->                ^(REGION[$x] ID template?)
 ;

subtemplate
 : lc='{' (ids+= ID ( ',' ids+= ID )* '|' )? template INDENT? '}'
  // ignore final INDENT before } as it's not part of outer indent
  -> ^(SUBTEMPLATE[$lc,"SUBTEMPLATE"] ^(ARGS $ids)* template?)
 ;

ifstat
@init {Token indent=null;}
 : i=INDENT? LDELIM 'if' '(' c1=conditional ')' RDELIM {if (input.LA(1)!=NEWLINE)
 indent=$i;}
   t1=template
   ( INDENT? LDELIM 'elseif' '(' c2+=conditional ')' RDELIM t2+=template )*
   ( INDENT? LDELIM 'else' RDELIM t3=template )?
   INDENT? endif= LDELIM 'endif'
  RDELIM
  // kill \n for <endif> on line by itself if multi-line IF
  ({$ifstat.start.getLine()!=input.LT(1).getLine()}?=> NEWLINE)?
  -> {indent!=null}?
     ^(INDENTED_EXPR $i ^('if' $c1 $t1? ^('elseif' $c2 $t2)* ^('else' $t3?)?))
  ->                ^('if' $c1 $t1? ^('elseif' $c2 $t2)* ^('else' $t3?)?)
 ;

conditional
scope {
 boolean inside;
}
 : andConditional ( '||'^ andConditional )*
 ;

andConditional : notConditional ( '&&'^ notConditional )* ;

notConditional
 : '!'^ notConditional
 | memberExpr
 ;

notConditionalExpr
 : (ID->ID)
  ( p='.' prop=ID      -> ^(PROP[$p,"PROP"] $notConditionalExpr $prop)
  | p='.' '(' mapExpr ')'    -> ^(PROP_IND[$p,"PROP_IND"] $notConditionalExpr mapExpr)
  )*
 ;

exprOptions : option ( ',' option )* -> ^(OPTIONS option*)
```

```
;

option
@init {
 String id = input.LT(1).getText();
 String defVal = Compiler.defaultOptionValues.get(id);
 boolean validOption = Compiler.supportedOptions.get(id)!=null;
}
 : ID
  {
  if ( !validOption ) {
         errMgr.compileTimeError(ErrorType.NO_SUCH_OPTION, templateToken, $ID, $ID.text);
  }
  }
  ( '=' exprNoComma      -> {validOption}? ^('=' ID exprNoComma)
          ->
  | {
   if ( defVal==null ) {
    errMgr.compileTimeError(ErrorType.NO_DEFAULT_VALUE, templateToken, $ID);
   }
   }
          -> {validOption&&defVal!=null}?
            ^(EQUALS["="] ID STRING[$ID,""+defVal+""])
          ->
 )
;

exprNoComma
 : memberExpr
  ( ':' mapTemplateRef     -> ^(MAP memberExpr mapTemplateRef)
  |         -> memberExpr
  )
;

expr : mapExpr ;

// more complicated than necessary to avoid backtracking, which ruins
// error handling
mapExpr
 : memberExpr
  ( (c=',' memberExpr)+ col=':' mapTemplateRef
          -> ^(ZIP[$col]
 ^(ELEMENTS memberExpr+) mapTemplateRef)
  |         -> memberExpr
  )
  ( {if ($x!=null) $x.clear();} // don't keep queueing x; new list for each iteration
   col=':' x+=mapTemplateRef ({$c==null}?=> ',' x+=mapTemplateRef )*
          -> ^(MAP[$col] $mapExpr $x+)
```

```
 )*
 ;

/**
expr:template(args)  apply template to expr
expr:{arg | ...}     apply subtemplate to expr
expr:(e)(args)       convert e to a string template name and apply to expr
*/
mapTemplateRef
 : ID '(' args ')'       -> ^(INCLUDE ID args?)
 | subtemplate
 | lp='(' mapExpr rp=')' '(' argExprList? ')' -> ^(INCLUDE_IND mapExpr argExprList?)
 ;

memberExpr
 : (includeExpr->includeExpr)
  ( p='.' ID       -> ^(PROP[$p,"PROP"] $memberExpr ID)
  | p='.' '(' mapExpr ')'    -> ^(PROP_IND[$p,"PROP_IND"] $memberExpr mapExpr)
  )*
 ;

includeExpr
options {k=2;} // prevent full LL(*), which fails, falling back on k=1; need k=2
 : {Compiler.funcs.containsKey(input.LT(1).getText())}? // predefined
 function
  ID '(' expr? ')'      -> ^(EXEC_FUNC ID expr?)
 | 'super' '.' ID '(' args ')'    -> ^(INCLUDE_SUPER ID args?)
 | ID '(' args ')'       -> ^(INCLUDE ID args?)
 | '@' 'super' '.' ID '(' rp=')'   -> ^(INCLUDE_SUPER_REGION ID)
 | '@' ID '(' rp=')'      -> ^(INCLUDE_REGION ID)
 | primary
 ;

primary
 : ID
 | STRING
 | TRUE
 | FALSE
 | subtemplate
 | list
 | {$conditional.size()>0}?=>  '('! conditional ')'!
 | {$conditional.size()==0}?=> lp='(' expr ')'
  ( '(' argExprList? ')'          -> ^(INCLUDE_IND[$lp] expr argExprList?)
  |          -> ^(TO_STR[$lp] expr)
  )
 ;

args: argExprList
```

```
 | namedArg ( ',' namedArg )* (',' '...')? -> namedArg+ '...'?
   |   '...'
 |
 ;

argExprList : arg ( ',' arg )* -> arg+ ;

arg : exprNoComma ;

namedArg : ID '=' arg -> ^('=' ID arg) ;

list: {input.LA(2)==RBRACK}? // hush warning; [] special case
  lb='[' ']' -> LIST[$lb]
 | lb='[' listElement ( ',' listElement )* ']' -> ^(LIST[$lb] listElement*)
 ;

listElement
 : exprNoComma | -> NULL ;
```

Found in path(s):
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/STParser.g
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* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/TypeRegistry.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/AmbiguousMatchException.java
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* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/JTreeASTModel.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/JTreeSTModel.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/InterpEvent.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STGroupCompiletimeMessage.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/BytecodeDisassembler.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/CompilationState.java
*

/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/ModelAdaptor.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Misc.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STLexerMessage.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroup.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Coordinate.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/ErrorType.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/IndentEvent.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STCompiletimeMessage.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/FormalArgument.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/ErrorBuffer.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/ST.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/AutoIndentWriter.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/DateRenderer.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/ConstructionEvent.java
*
/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/NumberRenderer.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Interval.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/ObjectModelAdaptor.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroupFile.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/CodeGenerator.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/STException.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STNoSuchAttributeException.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/STViz.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroupDir.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/CompiledST.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/MapModelAdaptor.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/AttributeRenderer.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/EvalTemplateEvent.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/STLexer.java
*
/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroupString.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STNoSuchPropertyException.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Aggregate.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STRuntimeMessage.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/AddAttributeEvent.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/Bytecode.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/AggregateModelAdaptor.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/Interpreter.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STWriter.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/MultiMap.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/ArrayIterator.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/GroupParser.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/ErrorManager.java
*
/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STModelAdaptor.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/EvalExprEvent.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/STViewFrame.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/GroupLexer.java

* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STMessage.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/StringTable.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/NoIndentWriter.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STErrorListener.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/Compiler.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/StringRenderer.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/InstanceScope.java
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/JTreeScopeStackModel.java
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*/
grammar Group;

options {
 language=Java;
}

tokens {
 TRUE='true'; FALSE='false'; LBRACK='['; RBRACK=']';
}

@header {
```

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*/
package org.stringtemplate.v4.compiler;

import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
import java.util.List;
import java.util.ArrayList;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
import java.io.File;
}

@lexer::header {
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*/
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.*;
import org.stringtemplate.v4.misc.*;
import java.io.File;
}

@members {
public STGroup group;

@Override
public void displayRecognitionError(String[] tokenNames,
                                    RecognitionException e)
{
  String msg = getErrorMessage(e, tokenNames);
  group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
@Override
public String getSourceName() {
  String fullFileName = super.getSourceName();
  File f = new File(fullFileName); // strip to simple name
  return f.getName();
}
public void error(String msg) {
  NoViableAltException e = new NoViableAltException("", 0, 0, input);
  group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
```

```
  recover(input, null);
}
}

@lexer::members {
public STGroup
 group;

@Override
public void reportError(RecognitionException e) {
  String msg = null;
  if ( e instanceof NoViableAltException ) {
     msg = "invalid character '"+(char)input.LA(1)+"'";
  }
  else if ( e instanceof MismatchedTokenException && ((MismatchedTokenException)e).expecting=="" ) {
     msg = "unterminated string";
  }
  else {
     msg = getErrorMessage(e, getTokenNames());
  }
  group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
@Override
public String getSourceName() {
  String fullFileName = super.getSourceName();
  File f = new File(fullFileName); // strip to simple name
  return f.getName();
}
}

group[STGroup group, String prefix]
@init {
GroupLexer lexer = (GroupLexer)input.getTokenSource();
this.group = lexer.group = $group;
}
 : oldStyleHeader?
  delimiters?
    ( 'import' STRING {group.importTemplates($STRING);}
  | 'import' // common error: name not in string
   {
   MismatchedTokenException
 e = new MismatchedTokenException(STRING, input);
   reportError(e);
   }
   ID ('.' ID)* // might be a.b.c.d
  )*
  def[prefix]*
  EOF
```

```
;

oldStyleHeader // ignore but lets us use this parser in AW for both v3 and v4
  :   'group' ID ( ':' ID )?
    ( 'implements' ID (',' ID)* )?
    ';'
;

groupName returns [String name]
@init {StringBuilder buf = new StringBuilder();}
 : a=ID {buf.append($a.text);} ('.' a=ID {buf.append($a.text);})*
 ;

delimiters
  : 'delimiters' a=STRING ',' b=STRING
    {
    group.delimiterStartChar=$a.getText().charAt(1);
     group.delimiterStopChar=$b.getText().charAt(1);
     }
  ;

/** Match template and dictionary defs outside of (...)+ loop in group.
*  The key is catching while still in the loop; must keep prediction of
*  elements separate from "stay in loop" prediction.
*/
def[String prefix] : templateDef[prefix] | dictDef ;
 catch[RecognitionException re] {
  // pretend
 we already saw an error here
  state.lastErrorIndex = input.index();
  error("garbled template definition starting at '"+input.LT(1).getText()+"'");
 }

templateDef[String prefix]
@init {
  String template=null;
  int n=0; // num char to strip from left, right of template def
}
 : ( '@' enclosing=ID '.' name=ID '(' ')'
  | name=ID '(' formalArgs ')'
  )
    '::='
    {Token templateToken = input.LT(1);}
    ( STRING     {template=$STRING.text; n=1;}
    | BIGSTRING  {template=$BIGSTRING.text; n=2;}
    | BIGSTRING_NO_NL  {template=$BIGSTRING_NO_NL.text; n=2;}
    | {
     template = "";
```

```
     String msg = "missing template at '"+input.LT(1).getText()+"'";
         NoViableAltException e = new NoViableAltException("", 0, 0, input);
        group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
        }
    )
    {
    if ( $name.index >= 0 ) { // if ID missing
  template = Misc.strip(template, n);
  String templateName
= $name.text;
  if ( prefix.length()>0 ) templateName = prefix+$name.text;
  String enclosingTemplateName = $enclosing.text;
  if (enclosingTemplateName != null && enclosingTemplateName.length()>0 && prefix.length()>0) {
   enclosingTemplateName = prefix + enclosingTemplateName;
  }
  group.defineTemplateOrRegion(templateName, enclosingTemplateName, templateToken,
          template, $name, $formalArgs.args);
 }
    }
|   alias=ID '::=' target=ID  {group.defineTemplateAlias($alias, $target);}
;

formalArgs returns[List<FormalArgument> args = new ArrayList<FormalArgument>()]
scope {
 boolean hasOptionalParameter;
}
@init { $formalArgs::hasOptionalParameter = false; }
 : formalArg[$args] (',' formalArg[$args])*
 |
 ;

formalArg[List<FormalArgument> args]
 : ID
  ( '=' a=(STRING|ANONYMOUS_TEMPLATE|'true'|'false') {$formalArgs::hasOptionalParameter = true;}
  | '=' a='[' ']' {$formalArgs::hasOptionalParameter = true;}
  | {
   if ($formalArgs::hasOptionalParameter)
  {
    group.errMgr.compileTimeError(ErrorType.REQUIRED_PARAMETER_AFTER_OPTIONAL,
            null, $ID);
   }
   }
  )
  {$args.add(new FormalArgument($ID.text, $a));}
   ;

/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
```

```
  :  OPTIONAL
  |  STAR
  |  PLUS
|
  ;
     */

dictDef
 : ID '::=' dict
     {
     if ( group.rawGetDictionary($ID.text)!=null ) {
  group.errMgr.compileTimeError(ErrorType.MAP_REDEFINITION, null, $ID);
     }
     else if ( group.rawGetTemplate($ID.text)!=null ) {
  group.errMgr.compileTimeError(ErrorType.TEMPLATE_REDEFINITION_AS_MAP, null, $ID);
     }
     else {
        group.defineDictionary($ID.text, $dict.mapping);
     }
     }
 ;

dict returns [Map<String,Object> mapping]
@init {mapping=new HashMap<String,Object>();}
 :  '[' dictPairs[mapping] ']'
 ;

dictPairs[Map<String,Object> mapping]
  : keyValuePair[mapping]
   (',' keyValuePair[mapping])*
 (',' defaultValuePair[mapping])?
  | defaultValuePair[mapping]
  ;
 catch[RecognitionException re] {
  error("missing dictionary entry at '"+input.LT(1).getText()+"'");
 }

defaultValuePair[Map<String,Object> mapping]
 : 'default' ':' keyValue {mapping.put(STGroup.DEFAULT_KEY, $keyValue.value);}
 ;

keyValuePair[Map<String,Object> mapping]
 : STRING ':' keyValue {mapping.put(Misc.replaceEscapes(Misc.strip($STRING.text, 1)), $keyValue.value);}
 ;

keyValue returns [Object value]
 : BIGSTRING   {$value = group.createSingleton($BIGSTRING);}
 | BIGSTRING_NO_NL  {$value = group.createSingleton($BIGSTRING_NO_NL);}
```

```
 | ANONYMOUS_TEMPLATE {$value = group.createSingleton($ANONYMOUS_TEMPLATE);}
 | STRING    {$value = Misc.replaceEscapes(Misc.strip($STRING.text, 1));}
 | TRUE    {$value = true;}
 | FALSE    {$value = false;}
 | '[' ']'    {$value = Collections.emptyList();}
 | {input.LT(1).getText().equals("key")}?=> ID
       {$value = STGroup.DICT_KEY;}
 ;
  catch[RecognitionException re] {
  error("missing value for key at '"+input.LT(1).getText()+"'");
  }

ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*
  ;

STRING
  : ""
   ( '\\' ""
   | '\\' ~""
   | {
    String msg = "\\n in string";
      NoViableAltException e = new NoViableAltException("", 0, 0, input);
    group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
    }
    '\n'
   | ~('\\'|'"'|'\n')
   )*
   ""
       {
       String txt = getText().replaceAll("\\\\\"","\"");
  setText(txt);
   }
 ;

BIGSTRING_NO_NL // same as BIGSTRING but means ignore newlines later
  : '<%' ( . )* '%>'
       // %\> is the escape to avoid end of string
       {
       String txt = getText().replaceAll("\%\\\\>","\%>");
  setText(txt);
   }
 ;

/** Match <<...>> but also allow <<..<x>>> so we can have tag on end.
    Escapes: >\> means >> inside of <<...>>.
    Escapes: \>> means >> inside of <<...>> unless at
  end like <<...\>>>>.
    In that case, use <%..>>%> instead.
```

```
*/
BIGSTRING
 : '<<'
  ( options {greedy=false;}
  : '\\' '>'  // \> escape
  | '\\' ~'>' // allow this but don't collapse in action
  | ~'\\'
  )*
      '>>'
      {
      String txt = getText();
      txt = Misc.replaceEscapedRightAngle(txt); // replace \> with > unless <\\>
  setText(txt);
  }
 ;

ANONYMOUS_TEMPLATE
   : '{'
    {
  Token templateToken = new CommonToken(input, ANONYMOUS_TEMPLATE, 0, getCharIndex(),
getCharIndex());
  STLexer lexer =
   new STLexer(group.errMgr, input, templateToken, group.delimiterStartChar, group.delimiterStopChar);
  lexer.subtemplateDepth = 1;
  Token t = lexer.nextToken();
  while ( lexer.subtemplateDepth>=1 || t.getType()!=STLexer.RCURLY ) {
   if ( t.getType()==STLexer.EOF_TYPE ) {
           MismatchedTokenException e = new MismatchedTokenException('}', input);
    String msg = "missing final '}' in {...} anonymous template";
      group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR,
 getSourceName(), e, msg);
    break;
   }
   t = lexer.nextToken();
  }
  }
    // don't match '}' here; our little {...} scanner loop matches it
    // to terminate.
   ;

COMMENT
   :   '/*' ( options {greedy=false;} : . )* '*/' {skip();}
   ;

LINE_COMMENT
   : '//' ~('\n'|'\r')* '\r'? '\n' {skip();}
   ;
```

```
WS  : (' '|'\r'|'\t'|'\n') {skip();} ;
```

Found in path(s):
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/Group.g
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*/

tree grammar CodeGenerator;

options {
 language=Java;
 tokenVocab=STParser;
 ASTLabelType=CommonTree;
}

@header {
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```

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*/
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
}

@members {
 String outermostTemplateName; // name of overall template
 CompiledST outermostImpl;
 Token templateToken;   // overall template token
 String template;      // overall template text
 ErrorManager errMgr;
 public CodeGenerator(TreeNodeStream input, ErrorManager errMgr, String name, String template, Token
templateToken) {
  this(input, new RecognizerSharedState());
  this.errMgr = errMgr;
  this.outermostTemplateName = name;
  this.template = template;
  this.templateToken = templateToken;
 }

 // convience funcs to hide offensive sending of emit messages to
 // CompilationState
 temp data object.
```

```
 public void emit1(CommonTree opAST, short opcode, int arg) {
  $template::state.emit1(opAST, opcode, arg);
 }
 public void emit1(CommonTree opAST, short opcode, String arg) {
  $template::state.emit1(opAST, opcode, arg);
 }
 public void emit2(CommonTree opAST, short opcode, int arg, int arg2) {
  $template::state.emit2(opAST, opcode, arg, arg2);
 }
 public void emit2(CommonTree opAST, short opcode, String s, int arg2) {
  $template::state.emit2(opAST, opcode, s, arg2);
 }
   public void emit(CommonTree opAST, short opcode) {
  $template::state.emit(opAST, opcode);
 }
 public void insert(int addr, short opcode, String s) {
  $template::state.insert(addr, opcode, s);
 }
 public void setOption(CommonTree id) {
  $template::state.setOption(id);
 }
 public void write(int addr, short value) {
  $template::state.write(addr,value);
 }
 public int address() { return $template::state.ip; }
 public void func(CommonTree id) { $template::state.func(templateToken,
 id); }
 public void refAttr(CommonTree id) { $template::state.refAttr(templateToken, id); }
 public int defineString(String s) { return $template::state.defineString(s); }
}

templateAndEOF : template[null,null] EOF; // hush warning; ignore

template[String name, List<FormalArgument> args] returns [CompiledST impl]
scope {
   CompilationState state; // automatically get a new state pointer per invocation
}
@init {
 $template::state = new CompilationState(errMgr, name, input.getTokenStream());
 $impl = $template::state.impl;
 if ( $template.size() == 1 ) outermostImpl = $impl;
 $impl.defineFormalArgs($args); // make sure args are defined prior to compilation
 if ( name!=null && name.startsWith(Compiler.SUBTEMPLATE_PREFIX) ) {
     $impl.addArg(new FormalArgument("i"));
     $impl.addArg(new FormalArgument("i0"));
   }
 $impl.template = template; // always forget the entire template; char indexes are relative to it
}
```

```
 : chunk
  { // finish off
 the CompiledST result
      if ( $template::state.stringtable!=null ) $impl.strings = $template::state.stringtable.toArray();
      $impl.codeSize = $template::state.ip;
  }
 ;

chunk
 : element*
 ;

element
 : ^(INDENTED_EXPR INDENT compoundElement[$INDENT]) // ignore indent in front of IF and region blocks
 | compoundElement[null]
 | ^(INDENTED_EXPR INDENT {$template::state.indent($INDENT);} singleElement
{$template::state.emit(Bytecode.INSTR_DEDENT);})
 | singleElement
 ;

singleElement
 : exprElement
 | TEXT
  {
  if ( $TEXT.text.length()>0 ) {
   emit1($TEXT,Bytecode.INSTR_WRITE_STR, $TEXT.text);
  }
  }

 | NEWLINE {emit($NEWLINE, Bytecode.INSTR_NEWLINE);}
 ;

compoundElement[CommonTree indent]
 : ifstat[indent]
 | region[indent]
 ;

exprElement
@init { short op = Bytecode.INSTR_WRITE; }
 : ^( EXPR expr (exprOptions {op=Bytecode.INSTR_WRITE_OPT;})? )
  {
  /*
  CompilationState state = $template::state;
  CompiledST impl = state.impl;
  if
 ( impl.instrs[state.ip-1] == Bytecode.INSTR_LOAD_LOCAL ) {
   impl.instrs[state.ip-1] = Bytecode.INSTR_WRITE_LOCAL;
  }
```

```
 else {
  emit($EXPR, op);
 }
 */
 emit($EXPR, op);
 }
;

region[CommonTree indent] returns [String name]
@init {
 if ( indent!=null ) $template::state.indent(indent);
}
@after {
 if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
 : ^( REGION ID
   {$name = STGroup.getMangledRegionName(outermostTemplateName, $ID.text);}
   template[$name,null]
   {
   CompiledST sub = $template.impl;
        sub.isRegion = true;
        sub.regionDefType = ST.RegionType.EMBEDDED;
        sub.templateDefStartToken = $ID.token;
   //sub.dump();
   outermostImpl.addImplicitlyDefinedTemplate(sub);
   emit2($start, Bytecode.INSTR_NEW, $region.name, 0);
   emit($start, Bytecode.INSTR_WRITE);
   }
   )
;

subtemplate returns [String name, int nargs]
@init {
   $name = Compiler.getNewSubtemplateName();
 List<FormalArgument>
 args = new ArrayList<FormalArgument>();
}
 : ^( SUBTEMPLATE
   (^(ARGS (ID {args.add(new FormalArgument($ID.text));})+))*
   {$nargs = args.size();}
   template[$name,args]
   {
   CompiledST sub = $template.impl;
   sub.isAnonSubtemplate = true;
        sub.templateDefStartToken = $SUBTEMPLATE.token;
          sub.ast = $SUBTEMPLATE;
          sub.ast.setUnknownTokenBoundaries();
          sub.tokens = input.getTokenStream();
```

```
  //sub.dump();
  outermostImpl.addImplicitlyDefinedTemplate(sub);
  }
  )
| SUBTEMPLATE // {}
  {
  CompiledST sub = new CompiledST();
  sub.name = $name;
  sub.template = "";
  sub.addArg(new FormalArgument("i"));
  sub.addArg(new FormalArgument("i0"));
  sub.isAnonSubtemplate = true;
        sub.templateDefStartToken = $SUBTEMPLATE.token;
         sub.ast = $SUBTEMPLATE;
         sub.ast.setUnknownTokenBoundaries();
         sub.tokens = input.getTokenStream();
  //sub.dump();
  outermostImpl.addImplicitlyDefinedTemplate(sub);
  }
;

ifstat[CommonTree
 indent]
@init {
  /** Tracks address of branch operand (in code block).  It's how
   *  we backpatch forward references when generating code for IFs.
   */
  int prevBranchOperand = -1;
  /** Branch instruction operands that are forward refs to end of IF.
   *  We need to update them once we see the endif.
   */
  List<Integer> endRefs = new ArrayList<Integer>();
  if ( indent!=null ) $template::state.indent(indent);
}
@after {
 if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
 : ^( i='if' conditional
  {
        prevBranchOperand = address()+1;
        emit1($i,Bytecode.INSTR_BRF, -1); // write placeholder as branch target
  }
  chunk
  ( ^(eif='elseif'
   {
   endRefs.add(address()+1);
   emit1($eif,Bytecode.INSTR_BR, -1); // br end
   // update previous branch instruction
```

```
   write(prevBranchOperand, (short)address());
   prevBranchOperand = -1;
   }
   ec=conditional
   {

      prevBranchOperand = address()+1;
        // write placeholder as branch target
        emit1($ec.start, Bytecode.INSTR_BRF, -1);
   }
   chunk
   )
  )*
  ( ^( el='else'
    {
    endRefs.add(address()+1);
    emit1($el, Bytecode.INSTR_BR, -1); // br end
    // update previous branch instruction
    write(prevBranchOperand, (short)address());
    prevBranchOperand = -1;
    }
    chunk
    )
  )?
  )
  {
  if ( prevBranchOperand>=0 ) {
   write(prevBranchOperand, (short)address());
  }
      for (int opnd : endRefs) write(opnd, (short)address());
  }
 ;

conditional
 : ^(OR conditional conditional)  {emit($OR, Bytecode.INSTR_OR);}
 | ^(AND conditional conditional)  {emit($AND, Bytecode.INSTR_AND);}
 | ^(BANG conditional)     {emit($BANG, Bytecode.INSTR_NOT);}
 | expr // not all expr are valid, but reuse code gen (parser restricts syntax)
 ;

exprOptions : {emit($start, Bytecode.INSTR_OPTIONS);}
 ^(OPTIONS option*) ;

option : ^('=' ID expr) {setOption($ID);} ;

expr
@init {int nt = 0, ne = 0;}
 : ^(ZIP ^(ELEMENTS (expr {ne++;})+) mapTemplateRef[ne])
```

```
 {emit1($ZIP, Bytecode.INSTR_ZIP_MAP, ne);}
| ^(MAP expr (mapTemplateRef[1] {nt++;})+)
 {
 if ( nt>1 ) emit1($MAP, nt>1?Bytecode.INSTR_ROT_MAP:Bytecode.INSTR_MAP, nt);
 else emit($MAP, Bytecode.INSTR_MAP);
 }
| prop
| includeExpr
;

prop: ^(PROP expr ID)      {emit1($PROP, Bytecode.INSTR_LOAD_PROP, $ID.text);}
 | ^(PROP_IND expr expr)    {emit($PROP_IND, Bytecode.INSTR_LOAD_PROP_IND);}
 ;

mapTemplateRef[int num_exprs]
 : ^( INCLUDE ID
   {for (int i=1; i<=$num_exprs; i++) emit($INCLUDE,Bytecode.INSTR_NULL);}
   args
 )
 {
 if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
 if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
 else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n+$num_exprs);
 }
| subtemplate
 {
 if ( $subtemplate.nargs
!= $num_exprs ) {
        errMgr.compileTimeError(ErrorType.ANON_ARGUMENT_MISMATCH,
            templateToken, $subtemplate.start.token, $subtemplate.nargs, $num_exprs);
 }
 for (int i=1; i<=$num_exprs; i++) emit($subtemplate.start,Bytecode.INSTR_NULL);
     emit2($subtemplate.start, Bytecode.INSTR_NEW,
           $subtemplate.name,
           $num_exprs);
 }

| ^( INCLUDE_IND expr
  {
  emit($INCLUDE_IND,Bytecode.INSTR_TOSTR);
  for (int i=1; i<=$num_exprs; i++) emit($INCLUDE_IND,Bytecode.INSTR_NULL);
  }
  args
  {
  emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n+$num_exprs);
  }
  )
;
```

```
includeExpr
 : ^(EXEC_FUNC ID expr?)  {func($ID);}
 | ^(INCLUDE ID args)
  {
  if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
  if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
  else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n);
  }
 | ^(INCLUDE_SUPER
 ID args)
  {
  if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
  if ( $args.namedArgs ) emit1($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW_BOX_ARGS, $ID.text);
  else emit2($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW, $ID.text, $args.n);
  }
 | ^(INCLUDE_REGION ID)  {
        CompiledST impl =
         Compiler.defineBlankRegion(outermostImpl, $ID.token);
        //impl.dump();
        emit2($INCLUDE_REGION,Bytecode.INSTR_NEW,impl.name,0);
        }
 | ^(INCLUDE_SUPER_REGION ID) {
                        String mangled =
                           STGroup.getMangledRegionName(outermostImpl.name, $ID.text);
        emit2($INCLUDE_SUPER_REGION,Bytecode.INSTR_SUPER_NEW,mangled,0);
        }
 | primary
 ;

primary
 : ID    {refAttr($ID);}
 | STRING   {emit1($STRING,Bytecode.INSTR_LOAD_STR, Misc.strip($STRING.text,1));}
 | TRUE   {emit($TRUE, Bytecode.INSTR_TRUE);}
 | FALSE   {emit($FALSE, Bytecode.INSTR_FALSE);}
 | subtemplate  //
 push a subtemplate but ignore args since we can't pass any to it here
              {emit2($start,Bytecode.INSTR_NEW, $subtemplate.name, 0);}
 | list
 | ^( INCLUDE_IND
   expr   {emit($INCLUDE_IND, Bytecode.INSTR_TOSTR);}
   args       {emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n);}
   )
 | ^(TO_STR expr) {emit($TO_STR, Bytecode.INSTR_TOSTR);}
 ;

arg : expr ;
```

```
args returns [int n=0, boolean namedArgs=false, boolean passThru]
 : ( arg {$n++;} )+
 | {emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}
  ( ^(eq='=' ID expr)
   {$n++; emit1($eq, Bytecode.INSTR_STORE_ARG, defineString($ID.text));}
  )+
  ( '...' {$passThru=true;} )?
   |  '...' {$passThru=true; emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}
 |
 ;

list: {emit($start, Bytecode.INSTR_LIST);}
  ^(LIST (listElement {emit($listElement.start, Bytecode.INSTR_ADD);})* )
 ;

listElement : expr | NULL {emit($NULL,Bytecode.INSTR_NULL);} ;
```

Found in path(s):
* /st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/CodeGenerator.g

1.191 lucene-queryparser 9.12.2

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The
German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and

Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The
Stempel analyzer (stempel) includes BSD-licensed software developed
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and Edmond Nolan.

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

The SmartChineseAnalyzer source code (smartcn) was
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and uses
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==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/Property.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Production.java
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/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Represent.java
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/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
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/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
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/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java

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/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: www.
* source-code.biz/base64coder/java

* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
* Multi-licensed: EPL / LGPL / GPL / AL / BSD.
*/

Found in path(s):
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

1.193 apm-apache-httpclient3-plugin 1.52.2

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1.196 apm-jms-plugin-base 1.52.2

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1.200 spring-boot-devtools 3.3.11

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1.201 netty-transport 4.1.126.Final

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/opt/cola/permits/2614416932_1760733917.7123888/0/netty-transport-4-1-126-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*
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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Built-By: root

Bnd-LastModified: 1756905907195
Specification-Title: Netty/Transport
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.bootstrap,io.netty.buffer;version="[4.1,5)",i
o.netty.channel,io.netty.channel.nio,io.netty.channel.oio,io.netty.ch
annel.socket,io.netty.resolver;version="[4.1,5)",io.netty.util;versio
n="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.
internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4
.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version=
"[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";r
esolution:=optional,org.bouncycastle.jcajce.provider;version="[1.0,2)
";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package:
 io.netty.bootstrap;uses:="io.netty.channel,io.netty.re
solver,io.netty.util";version="4.1.126",io.netty.channel;uses:="io.ne
tty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent"
;version="4.1.126",io.netty.channel.embedded;uses:="io.netty.channel"
;version="4.1.126",io.netty.channel.group;uses:="io.netty.channel,io.
netty.util.concurrent";version="4.1.126",io.netty.channel.internal;ve
rsion="4.1.126",io.netty.channel.local;uses:="io.netty.channel";versi
on="4.1.126",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.cha
nnel,io.netty.util,io.netty.util.concurrent";version="4.1.126",io.net
ty.channel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.
126",io.netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel
,io.netty.util.concurrent";version="4.1.126",io.netty.channel.socket;
uses:="io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.1
26",io.netty.channel.socket.nio;uses:="io.netty.buffer,io.netty.chann
 el,io.netty.channel.nio,io.netty.channel.socket";version="4.1.126",io
.netty.channel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.
netty.channel.oio,io.netty.channel.socket";version="4.1.126"
Bundle-Name: Netty/Transport
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.transport
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462

Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-transport/

Found in path(s):
* /netty-transport-4-1-126-final-jar/META-INF/MANIFEST.MF

1.202 apm-finagle-httpclient-plugin 1.52.2

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1.203 tika-langdetect-tika 3.2.2

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1.205 jackson-module-parameter-names 2.19.2

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1.206 opentest4j 1.2.0

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* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/IncompleteExecutionException.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/TestAbortedException.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/MultipleFailuresError.java
*
 /opentest4j-1-2-0-sources-5-jar/org/opentest4j/AssertionFailedError.java
* /opentest4j-1-2-0-sources-5-jar/org/opentest4j/TestSkippedException.java

1.207 resourcelocator 1.0.3

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1.208 threetenbp 1.6.5

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1.209 logback-access 1.4.11

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```
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--
-- It is intended for Oracle databases.


CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;


CREATE TABLE access_event
 (
   timestmp         NUMBER(20) NOT NULL,
   requestURI    VARCHAR(254),
   requestURL       VARCHAR(254),
   remoteHost       VARCHAR(254),
   remoteUser       VARCHAR(254),
   remoteAddr       VARCHAR(254),
   protocol         VARCHAR(254),
   method           VARCHAR(254),
   serverName       VARCHAR(254),
   postContent      VARCHAR(254),
   event_id         NUMBER(20) PRIMARY KEY
 );

-- the / suffix may or may not be needed depending on your SQL Client
--
 Some SQL Clients, e.g. SQuirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

CREATE TRIGGER access_event_id_seq_trig
 BEFORE INSERT ON access_event
 FOR EACH ROW
 BEGIN
   SELECT access_event_id_seq.NEXTVAL
   INTO   :NEW.event_id
   FROM   DUAL;
 END access_event_id_seq_trig;
/

CREATE TABLE access_event_header
 (
   event_id       NUMBER(20) NOT NULL,
   header_key        VARCHAR2(254) NOT NULL,
   header_value      VARCHAR2(1024),
```

```
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

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* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/SessionIDConverter.java
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# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with
# INNODB tables.


BEGIN;
DROP TABLE IF EXISTS access_event_header;
DROP TABLE IF EXISTS access_event;
COMMIT;

BEGIN;
CREATE TABLE access_event
(
  timestmp         BIGINT NOT NULL,
  requestURI       VARCHAR(254),
  requestURL       VARCHAR(254),
  remoteHost       VARCHAR(254),
  remoteUser       VARCHAR(254),
  remoteAddr       VARCHAR(254),
  protocol         VARCHAR(254),
  method           VARCHAR(254),
  serverName       VARCHAR(254),
  postContent      VARCHAR(254),
```

```
  event_id         BIGINT NOT NULL
 AUTO_INCREMENT PRIMARY KEY
 );
COMMIT;

BEGIN;
CREATE TABLE access_event_header
 (
  event_id       BIGINT NOT NULL,
  header_key        VARCHAR(254) NOT NULL,
  header_value      VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 );
COMMIT;
```

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DROP TABLE    access_event_exception;
DROP SEQUENCE access_event_id_seq;
DROP TABLE    access_event;

CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;

CREATE TABLE access_event
 (
  timestmp         BIGINT NOT NULL,
  requestURI       VARCHAR(254),
  requestURL       VARCHAR(254),
  remoteHost       VARCHAR(254),
  remoteUser       VARCHAR(254),
  remoteAddr       VARCHAR(254),
  protocol         VARCHAR(254),
  method           VARCHAR(254),
  serverName       VARCHAR(254),
  postContent      VARCHAR(254),
```

```
  event_id         BIGINT DEFAULT
 nextval('access_event_id_seq') PRIMARY KEY
 );

CREATE TABLE access_event_header
(
  event_id       BIGINT NOT NULL,
  header_key        VARCHAR(254) NOT NULL,
  header_value      VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 );
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#
# It is intended for IBM DB2 databases.
#
# WARNING  WARNING WARNING  WARNING
# ================================
# This SQL script has not been tested on an actual DB2
# instance. It may contain errors or even invalid SQL
# statements.

DROP TABLE  access_event_header;
DROP TABLE  access_event;

CREATE TABLE access_event
 (
  timestmp         BIGINT NOT NULL,
  requestURI       VARCHAR(254),
  requestURL       VARCHAR(254),
  remoteHost       VARCHAR(254),
  remoteUser       VARCHAR(254),
  remoteAddr       VARCHAR(254),
  protocol         VARCHAR(254),
  method           VARCHAR(254),
  serverName
```

```
      VARCHAR(254),
  postContent       VARCHAR(254),
  event_id          INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
 );

CREATE TABLE access_event_header
 (
  event_id       INTEGER NOT NULL,
  header_key        VARCHAR(254) NOT NULL,
  header_value      VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 );
```

Found in path(s):
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/db/script/db2.sql
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```
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--
-- See http://logback.qos.ch/license.html for the applicable licensing
-- conditions.

-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--

DROP TABLE access_event_header
DROP TABLE access_event

CREATE TABLE access_event
 (
  timestmp          BIGINT NOT NULL,
  requestURI        VARCHAR(254),
  requestURL        VARCHAR(254),
  remoteHost        VARCHAR(254),
  remoteUser        VARCHAR(254),
  remoteAddr        VARCHAR(254),
  protocol          VARCHAR(254),
  method            VARCHAR(254),
  serverName        VARCHAR(254),
  postContent       VARCHAR(254),
  event_id          INT NOT NULL identity,
  PRIMARY KEY(event_id)
 )

CREATE TABLE access_event_header
 (
```

```
  event_id          INT NOT NULL,
  header_key
      VARCHAR(254) NOT NULL,
  header_value      VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
)
```

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```

Found in path(s):
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/joran/JoranConfigurator.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/model/ConfigurationModel.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/model/processor/ConfigurationModelHandler.java
No license file was found, but licenses were detected in source scan.

```
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#
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# conditions.

# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
#
# It is intended for HSQL databases.


DROP TABLE access_event_header IF EXISTS;
DROP TABLE access_event IF EXISTS;

CREATE TABLE access_event (
 timestmp BIGINT NOT NULL,
```

```
 requestURI VARCHAR(254),
 requestURL VARCHAR(254),
 remoteHost VARCHAR(254),
 remoteUser VARCHAR(254),
 remoteAddr VARCHAR(254),
 protocol VARCHAR(254),
 method VARCHAR(254),
 serverName VARCHAR(254),
 postContent VARCHAR(254),
 event_id BIGINT NOT NULL IDENTITY);


CREATE TABLE access_event_header (
 event_id BIGINT NOT NULL,
 header_key  VARCHAR(254) NOT NULL,
 header_value LONGVARCHAR,
 PRIMARY KEY(event_id, header_key),
 FOREIGN KEY
 (event_id) REFERENCES access_event(event_id));
```

Found in path(s):
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/db/script/hsqldb.sql
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```
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```

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* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/joran/action/AccessEvaluatorAction.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/spi/Util.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/FullRequestConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/AccessConverter.java
*
 /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/SocketNode.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java

* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/servlet/Util.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/sift/SiftingAppender.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/spi/AccessEvent.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/spi/IAccessEvent.java
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* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java
*
 /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/SocketAppender.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/PeriodicStats.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/spi/AccessContext.java
*
 /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
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* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java
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* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/html/HTMLLayout.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/servlet/TeeFilter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/StatsByWeek.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/SSLSocketAppender.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/StatsByMonth.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
*
 /logback-access-1-4-11-sources-1-
jar/ch/qos/logback/access/model/processor/LogbackAccessDefaultNestedComponentRegistryRules.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/NAConverter.java

* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/spi/ServerAdapter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/SMTPAppender.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/StatsByHour.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/StatisticalView.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/html/UrlCssBuilder.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/LocalPortConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
*
/logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/html/DefaultCssBuilder.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/StatsByMinute.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/DateConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/filter/StatsByDay.java
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* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/net/URLEvaluator.java
*
/logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /logback-access-1-4-11-sources-1-jar/ch/qos/logback/access/AccessConstants.java
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1.210 jackson-xc 2.15.0

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1.211 commons-math 3.6.1

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in package org.apache.commons.math3.ode.nonstiff:

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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham
(University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf

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Specification-Title: Netty/Common
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Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.anno
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ging.log4j;version="[2.17,3)";resolution:=optional,org.apache.logging
.log4j.message;version="[2.17,3)";resolution:=optional,org.apache.log
ging.log4j.spi;version="[2.17,3)";resolution:=optional,org.slf4j;vers
ion="[1.7,2)";resolution:=optional,org.slf4j.helpers;version="[1.7,2)
";resolution:=optional,org.slf4j.spi;version="[1.7,2)";resolution:=op
 tional,reactor.blockhound;resolution:=optional,reactor.blockhound.int
egration;resolution:=optional,sun.nio.ch;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
DynamicImport-Package: *
Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty
.util.internal";version="4.1.126",io.netty.util.collection;version="4
.1.126",io.netty.util.concurrent;uses:="io.netty.util,io.netty.util.i
nternal";version="4.1.126",io.netty.util.internal;uses:="io.netty.uti
l,io.netty.util.concurrent,io.netty.util.internal.logging,javax.secur
ity.cert,reactor.blockhound,reactor.blockhound.integration";version="
4.1.126",io.netty.util.internal.logging;version="4.1.126",io.netty.ut
il.internal.svm;version="4.1.126"
Bundle-Name: Netty/Common
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Common
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development
 of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.common
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project

Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-common/

Found in path(s):
* /netty-common-4-1-126-final-jar/META-INF/MANIFEST.MF
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Found in path(s):
* io.netty.util.internal.Hidden$NettyBlockHoundIntegration
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/opt/cola/permits/2614416873_1760733085.3992126/0/netty-common-4-1-126-final-jar/META-INF/maven/io.netty/netty-common/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2614416873_1760733085.3992126/0/netty-common-4-1-126-final-jar/META-INF/maven/org.jctools/jctools-core/pom.xml<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
/opt/cola/permits/2614416873_1760733085.3992126/0/netty-common-4-1-126-final-jar/META-INF/native-image/io.netty/netty-common/native-image.properties# Copyright 2019 The Netty Project
/opt/cola/permits/2614416873_1760733085.3992126/0/netty-common-4-1-126-final-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration# Copyright 2019 The Netty Project

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*

1.217 arns 2.31.78

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1.218 netty-resolver-dns 4.1.126.Final

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/opt/cola/permits/2614416986_1760733885.290669/0/netty-resolver-dns-4-1-126-final-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2614416986_1760733885.290669/0/netty-resolver-dns-4-1-126-final-jar/META-INF/native-

image/io.netty/netty-resolver-dns/native-image.properties# Copyright 2020 The Netty Project

Found in path(s):
*
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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver-dns
Built-By: root
Bnd-LastModified: 1756905996958
Specification-Title: Netty/Resolver/DNS
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: sun.net.dns;resolution:=optional,io.netty.bootstrap;ve
rsion="[4.1,5)",io.netty.buffer;version="[4.1,5)",io.netty.channel;ve
rsion="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.ha
ndler.codec;version="[4.1,5)",io.netty.handler.codec.dns;version="[4.
1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.resolver;ve
rsion="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collect
ion;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.n
etty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;v
ersion="[4.1,5)",javax.naming.directory,sun.nio.ch;resolution:=option
al,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.ecl
 ipse.jetty.alpn;version="[1,2)";resolution:=optional,org.bouncycastle
.jcajce.provider;version="[1.0,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.resolver.dns;uses:="io.netty.channel,io.netty
.channel.socket,io.netty.handler.codec.dns,io.netty.handler.logging,i
o.netty.resolver,io.netty.util,io.netty.util.concurrent";version="4.1
.126"
Bundle-Name: Netty/Resolver/DNS
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Resolver/DNS
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.resolver.dns
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version:
 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8

Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-resolver-dns/

Found in path(s):
* /netty-resolver-dns-4-1-126-final-jar/META-INF/MANIFEST.MF

1.219 lang-tag 1.7

1.219.1 Available under license :

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Nimbus LangTag
Specification-Version: 1.7
Specification-Vendor: Connect2id Ltd.
Implementation-Title: Nimbus LangTag
Implementation-Version: 1.7
Implementation-Vendor: Connect2id Ltd.
Build-Date: ${timestamp}
Build-Number: ${buildNumber}
Build-Tag: 1.7
Bnd-LastModified: 1657093138131
Build-Jdk: 11.0.15
Built-By: vd
Bundle-Description: Java implementation of "Tags for Identifying Languag
es" (RFC 5646)
Bundle-DocURL: https://connect2id.com/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Nimbus LangTag
Bundle-SymbolicName: lang-tag
Bundle-Vendor: Connect2id Ltd.
Bundle-Version: 1.7.0
Export-Package: com.nimbusds.langtag;version="1.7"
Implementation-Vendor-Id: com.nimbusds
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923

Found
 in path(s):
* /lang-tag-1-7-jar/META-INF/MANIFEST.MF

1.220 siv-mode 1.5.2

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1.221 apm-tomcat-logging-plugin 1.52.2

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1.222 opencensus-api 0.31.1

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1.223 failureaccess 1.0.2

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* /failureaccess-1-0-2-sources-1-jar/com/google/common/util/concurrent/internal/InternalFutures.java

1.224 jcip-annotation 1.0-1

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* /jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
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1.225 log4j-api 2.19.0

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1.226 jline 3.26.1

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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-3-26-1-sources-jar/org/jline/console/CommandMethods.java
* /jline-3-26-1-sources-jar/org/jline/console/ScriptEngine.java
* /jline-3-26-1-sources-jar/org/jline/console/CommandRegistry.java
* /jline-3-26-1-sources-jar/org/jline/widget/AutosuggestionWidgets.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
*
/jline-3-26-1-sources-jar/org/jline/console/impl/JlineCommandRegistry.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-3-26-1-sources-jar/org/jline/console/CommandInput.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/JniNativePty.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/utils/ColorPalette.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-3-26-1-sources-jar/org/jline/console/CmdDesc.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /jline-3-26-1-sources-jar/org/jline/reader/EndOfFileException.java
* /jline-3-26-1-sources-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java

* /jline-3-26-1-sources-jar/org/jline/console/CmdLine.java
*
 /jline-3-26-1-sources-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-26-1-sources-jar/org/jline/utils/Log.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/DefaultParser.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinSysTerminal.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/utils/Display.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/JniTerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/reader/CompletionMatcher.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/ReaderUtils.java
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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-3-26-1-sources-jar/org/jline/reader/Binding.java
* /jline-3-26-1-sources-jar/org/jline/reader/Macro.java
* /jline-3-26-1-sources-jar/org/jline/utils/ExecHelper.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/exec/ExecPty.java
* /jline-3-26-1-sources-jar/org/jline/utils/Levenshtein.java
* /jline-3-26-1-sources-jar/org/jline/reader/Widget.java
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 /jline-3-26-1-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /jline-3-26-1-sources-jar/org/jline/utils/DiffHelper.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/UndoTree.java
* /jline-3-26-1-sources-jar/org/jline/terminal/Attributes.java
* /jline-3-26-1-sources-jar/org/jline/utils/ClosedException.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-3-26-1-sources-jar/org/jline/utils/ShutdownHooks.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-3-26-1-sources-jar/org/jline/keymap/KeyMap.java
* /jline-3-26-1-sources-jar/org/jline/utils/InputStreamReader.java
* /jline-3-26-1-sources-jar/org/jline/terminal/MouseEvent.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-3-26-1-sources-jar/org/jline/reader/UserInterruptException.java
* /jline-3-26-1-sources-jar/org/jline/utils/WCWidth.java
* /jline-3-26-1-sources-jar/org/jline/terminal/Cursor.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
*
 /jline-3-26-1-sources-jar/org/jline/reader/Reference.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-3-26-1-sources-jar/org/jline/terminal/spi/Pty.java
* /jline-3-26-1-sources-jar/org/jline/utils/AttributedString.java
* /jline-3-26-1-sources-jar/org/jline/utils/OSUtils.java
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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
* /jline-3-26-1-sources-jar/org/jline/utils/AnsiWriter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/WindowsAnsiWriter.java
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#
class = org.jline.terminal.impl.jni.JniTerminalProvider

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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/DumbTerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/terminal/spi/TerminalExt.java

* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsSupport.java
* /jline-3-26-1-sources-jar/org/jline/reader/EOFError.java
* /jline-3-26-1-sources-jar/org/jline/reader/SyntaxError.java
* /jline-3-26-1-sources-jar/org/jline/terminal/spi/SystemStream.java
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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/FfmTerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/NativeWinSysTerminal.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/NativeWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/FfmNativePty.java
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* /jline-3-26-1-sources-jar/org/jline/utils/StyleResolver.java
* /jline-3-26-1-sources-jar/org/jline/style/Styler.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /jline-3-26-1-sources-jar/org/jline/builtins/NfaMatcher.java
* /jline-3-26-1-sources-jar/org/jline/builtins/InputRC.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-3-26-1-sources-jar/org/jline/utils/Colors.java
*
/jline-3-26-1-sources-jar/org/jline/utils/Timeout.java
* /jline-3-26-1-sources-jar/org/jline/reader/ParsedLine.java
* /jline-3-26-1-sources-jar/org/jline/reader/CompletingParsedLine.java

* /jline-3-26-1-sources-jar/org/jline/style/StyleFactory.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlocking.java
* /jline-3-26-1-sources-jar/org/jline/keymap/BindingReader.java
* /jline-3-26-1-sources-jar/org/jline/terminal/Size.java
* /jline-3-26-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/KillRing.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-26-1-sources-jar/org/jline/reader/MaskingCallback.java
* /jline-3-26-1-sources-jar/org/jline/utils/Curses.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-26-1-sources-jar/org/jline/reader/History.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
*
 /jline-3-26-1-sources-jar/org/jline/reader/Completer.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleExpression.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleSource.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
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* /jline-3-26-1-sources-jar/org/jline/utils/InfoCmp.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Tmux.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ConfigurationPath.java
* /jline-3-26-1-sources-jar/org/jline/reader/Candidate.java
* /jline-3-26-1-sources-jar/org/jline/utils/Status.java
* /jline-3-26-1-sources-jar/org/jline/reader/Editor.java
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#
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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Commands.java
* /jline-3-26-1-sources-jar/org/jline/widget/TailTipWidgets.java
* /jline-3-26-1-sources-jar/org/jline/widget/Widgets.java
* /jline-3-26-1-sources-jar/org/jline/console/ConsoleEngine.java
* /jline-3-26-1-sources-jar/org/jline/reader/LineReader.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Less.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/SystemRegistryImpl.java
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class = org.jline.terminal.impl.exec.ExecTerminalProvider
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 /jline-3-26-1-sources-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/Connection.java
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* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiColors.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiRenderer.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiType.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /jline-3-26-1-sources-jar/org/jline/nativ/Kernel32.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/ColorsAnsiProcessor.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiPrintStream.java
* /jline-3-26-1-sources-jar/org/jline/jansi/Ansi.java
* /jline-3-26-1-sources-jar/org/jline/nativ/CLibrary.java
*
 /jline-3-26-1-sources-jar/org/jline/utils/FastBufferedOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiMain.java

* /jline-3-26-1-sources-jar/org/jline/jansi/io/AnsiProcessor.java
* /jline-3-26-1-sources-jar/org/jline/jansi/WindowsSupport.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/Colors.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/AnsiOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/Kernel32.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiConsole.java
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* /jline-3-26-1-sources-jar/org/jline/builtins/Completers.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-3-26-1-sources-jar/org/jline/reader/Parser.java
* /jline-3-26-1-sources-jar/org/jline/terminal/TerminalBuilder.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Nano.java
* /jline-3-26-1-sources-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-26-1-sources-jar/org/jline/reader/Highlighter.java
*
 /jline-3-26-1-sources-jar/org/jline/builtins/Styles.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ConsoleOptionGetter.java
* /jline-3-26-1-sources-jar/org/jline/builtins/TTop.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /jline-3-26-1-sources-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-26-1-sources-jar/org/jline/console/ArgDesc.java
* /jline-3-26-1-sources-jar/org/jline/console/SystemRegistry.java
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* /jline-3-26-1-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleColor.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleResolver.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /jline-3-26-1-sources-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/Telnet.java
*
 /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-3-26-1-sources-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ssh/Ssh.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleBundle.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/linux/LinuxNativePty.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingPumpReader.java
*
 /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/StyledWriter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/InterpolationHelper.java
* /jline-3-26-1-sources-jar/org/jline/utils/PumpReader.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java

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Found in path(s):
* /jline-3-26-1-sources-jar/org/jline/console/impl/Builtins.java
* /jline-3-26-1-sources-jar/org/jline/console/Printer.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Source.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da

memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
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init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
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lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
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max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
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bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
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dot_horz_spacing, spinh, Yc
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max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
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orvi, Yl
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change_scroll_region, csr, cs
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clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
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cursor_normal, cnorm, ve
cursor_right, cuf1, nd
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cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
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ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm

enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
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enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
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enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
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exit_attribute_mode, sgr0, me
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exit_italics_mode, ritm, ZR
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ZU
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exit_superscript_mode, rsupm, ZW
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initialize_color, initc, Ic
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key_sleft, kLFT, #4
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kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c

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key_sredo, kRDO, %g
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key_sright, kRIT, %i
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lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
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orig_pair, op, op
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parm_delete_line, dl, DL
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parm_down_micro,

mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
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prtr_non, mc5p, pO
prtr_off, mc4, pf
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remove_clock, rmclk, RC
repeat_char, rep, rp
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reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
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scroll_forward, ind, sf
scroll_reverse, ri, sr
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set_background, setb, Sb
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set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo

set_top_margin_parm, smgtp, Zp
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start_bit_image, sbim, Zq
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stop_char_set_def, rcsd, Zt
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these_cause_cr, docr, Zw
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underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
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code_set_init, csin, ci
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smpch, S2
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set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /jline-3-26-1-sources-jar/org/jline/utils/capabilities.txt
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* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/package-info.java
* /jline-3-26-1-sources-jar/org/jline/utils/package-info.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/history/package-info.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/package-info.java
* /jline-3-26-1-sources-jar/org/jline/reader/package-info.java
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Found in path(s):
* /jline-3-26-1-sources-jar/org/jline/nativ/JLineNativeLoader.java
* /jline-3-26-1-sources-jar/org/jline/nativ/OSInfo.java
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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime

yellow
blue
fuchsia
aqua
white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
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lightskyblue1
greenyellow

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paleturquoise1
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deeppink3
deeppink3a
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magenta3b
magenta2
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indianreda
hotpink3a
hotpink2
orchid
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plum3
violet
gold3a
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tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
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darkseagreen1a
honeydew2
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magenta1
orangered1

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mediumorchid1a
darkorange
salmon1
lightcoral
palevioletred1
orchid2
orchid1
orange1
sandybrown
lightsalmon1
lightpink1
pink1
plum1
gold1
lightgoldenrod2a
lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
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* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml
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* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
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* /jline-3-26-1-sources-jar/org/jline/terminal/impl/Diag.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
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1.227 micrometer-observation 1.13.13

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

The
 German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java

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

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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
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==
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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (https://github.com/lz4/lz4/tree/dev/lib) compression format for Lucene's DataInput/DataOutput abstractions.

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1.231 metrics-logback 4.2.19

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback

Build-Jdk-Spec: 11
Bundle-Description: An instrumented appender for Logback.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.2.19
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.cla
ssic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.19"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.2.19
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logbac
k.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)"
,com.codahale.metrics;version="[4.2,5)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/metrics-logback-4-2-19-jar/META-INF/MANIFEST.MF

1.232 jetty-servlets 11.0.24

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

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

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* org.apache.taglibs:taglibs-standard-impl

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

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1.235 google-oauth-client 1.34.1

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Manifest-Version: 1.0
Implementation-Title: Google OAuth Client Library for Java
Bundle-Description: Google OAuth Client Library for Java. Functionalit
y that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.
Automatic-Module-Name: com.google.api.client.auth
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.oauth-client
Implementation-Version: 1.34.1
Bnd-LastModified: 1654803126665
Bundle-ManifestVersion: 2
Bundle-RequiredExecutionEnvironment: JavaSE-1.7
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: com.google.api.client.auth.oauth2,com.google.api.clien

t.http;version="[1.42,2)",com.google.api.client.http.javanet;version=
"[1.42,2)",com.google.api.client.json;version="[1.42,2)",com.google.a
pi.client.json.gson,com.google.api.client.json.webtoken;version="[1.4
2,2)",com.google.api.client.util;version="[1.42,2)",com.google.api.cl
ient.util.escape;version="[1.42,2)",com.google.api.client.util.store;
version="[1.42,2)",com.google.common.base;version="[31.1,32)",com.goo
gle.common.cache;version="[31.1,32)",com.google.common.collect;versio
n="[31.1,32)",com.google.common.io;version="[31.1,32)",com.google.com
mon.util.concurrent;version="[31.1,32)",javax.crypto,javax.crypto.spe
c
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.2.0.202202251641
Implementation-Vendor: Google
Export-Package: com.google.api.client.auth.oauth;uses:="com.google.api
.client.http,com.google.api.client.util";version="1.34.1",com.google.
api.client.auth.oauth2;uses:="com.google.api.client.http,com.google.a
pi.client.json,com.google.api.client.util,com.google.api.client.util.
store";version="1.34.1",com.google.api.client.auth.openidconnect;uses
:="com.google.api.client.auth.oauth2,com.google.api.client.http,com.g
oogle.api.client.json,com.google.api.client.json.webtoken,com.google.
api.client.util";version="1.34.1"
Bundle-Name: Google OAuth Client Library for Java
Bundle-Version: 1.34.1
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.6

Found in path(s):
* /google-oauth-client-1-34-1-jar/META-INF/MANIFEST.MF

1.236 mockito 5.2.0

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1.237 apm-es-restclient-plugin-5_6 1.52.2

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1.241 junit-jupiter-api 5.10.5

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1.244 jetty-security 11.0.24

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

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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org.apache.poi.util.ReplacingInputStream is based on code from
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1.264 netty-handler 4.1.126.Final

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.handler
Built-By: root
Bnd-LastModified: 1756905937167
Specification-Title: Netty/Handler
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: sun.security.ssl;resolution:=optional,sun.security.x50
9;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resoluti
on:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optio
nal,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,
5)",io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;v
ersion="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.ha
ndler.codec.base64;version="[4.1,5)",io.netty.handler.ssl,io.netty.ha
ndler.ssl.util,io.netty.internal.tcnative;version="[2.0,3)";resolutio
n:=optional,io.netty.resolver;version="[4.1,5)",io.netty.util;version
="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.i
 nternal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.
1,5)",javax.crypto,javax.crypto.spec,javax.net.ssl,javax.security.aut
h.x500,javax.security.cert,org.bouncycastle.asn1.pkcs;version="[1.69,
2)";resolution:=optional,org.bouncycastle.asn1.x500;version="[1.69,2)
";resolution:=optional,org.bouncycastle.cert;version="[1.69,2)";resol
ution:=optional,org.bouncycastle.cert.jcajce;version="[1.69,2)";resol
ution:=optional,org.bouncycastle.openssl;version="[1.69,2)";resolutio
n:=optional,org.bouncycastle.openssl.jcajce;version="[1.69,2)";resolu
tion:=optional,org.bouncycastle.operator;version="[1.69,2)";resolutio
n:=optional,org.bouncycastle.operator.jcajce;version="[1.69,2)";resol
ution:=optional,org.bouncycastle.pkcs;version="[1.69,2)";resolution:=
optional,org.conscrypt;version="[2.5,3)";resolution:=optional,sun.nio
.ch;resolution:=optional,org.bouncycastle.jcajce.provider;version="[1
.0,2)";resolution:=optional
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.handler.address;uses:="io.netty.channel,io.ne
tty.resolver";version="4.1.126",io.netty.handler.flow;uses:="io.netty

.channel";version="4.1.126",io.netty.handler.flush;uses:="io.netty.ch
annel";version="4.1.126",io.netty.handler.ipfilter;uses:="io.netty.ch
annel";version="4.1.126",io.netty.handler.logging;uses:="io.netty.cha
nnel,io.netty.util.internal.logging";version="4.1.126",io.netty.handl
er.pcap;uses:="io.netty.channel";version="4.1.126",io.netty.handler.s
sl;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.
netty.util,io.netty.util.concurrent,javax.crypto,javax.net.ssl";versi
on="4.1.126",io.netty.handler.ssl.ocsp;uses:="io.netty.channel,io.net
ty.handler.ssl";version="4.1.126",io.netty.handler.ssl.util;uses:="ja
vax.net.ssl,javax.security.auth.x500,javax.security.cert";version="4.
1.126",io.netty.handler.stream;uses:="io.netty.buffer,io.netty.channe
l";version="4.1.126",io.netty.handler.timeout;uses:="io.netty.channel
 ";version="4.1.126",io.netty.handler.traffic;uses:="io.netty.channel,
io.netty.util.concurrent";version="4.1.126"
Bundle-Name: Netty/Handler
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Handler
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.handler
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-handler/

Found in path(s):
* /netty-handler-4-1-126-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Found in path(s):
* nextSliceSize
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2614416998_1760733850.2994187/0/netty-handler-4-1-126-final-jar/META-INF/maven/io.netty/netty-handler/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2614416998_1760733850.2994187/0/netty-handler-4-1-126-final-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties# Copyright 2019 The Netty Project
/opt/cola/permits/2614416998_1760733850.2994187/0/netty-handler-4-1-126-final-

jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.class

Found in path(s):
*
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/opt/cola/permits/2614416998_1760733850.2994187/0/netty-handler-4-1-126-final-jar/io/netty/handler/ssl/SslHandler.class

Found in path(s):
* dstsLength

1.265 jetty-util 11.0.24

1.265.1 Available under license :

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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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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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

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* org.apache.taglibs:taglibs-standard-spec
* org.apache.taglibs:taglibs-standard-impl

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

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

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1.268 activation-api 1.2.2

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1.269 jackson-dataformat-smile 2.17.2

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1.270 joda-time 2.10.10

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1.271 apm-redisson-plugin 1.52.2

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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,
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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Nori Korean Morphological Analyzer - Apache Lucene Integration
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1.277 hk2-locator 3.1.1

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1.278 aws-core 2.31.78

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1.279 grizzly-http 4.0.2

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1.282 resilience4j-core 2.1.0

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1.283 apm-slf4j-plugin 1.52.2

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*
 /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/util/Preconditions.java
* /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/util/Lists.java
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* /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/stream/cardinality/CardinalityMergeException.java
* /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/stream/ConcurrentStreamSummary.java
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* /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/stream/StreamSummary.java
* /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/stream/cardinality/AdaptiveCounting.java
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 /stream-lib-3-0-0-sources-2-jar/com/clearspring/analytics/stream/membership/BloomFilter.java
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1.288 byte-buddy 1.17.0

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1.289 apm-agent-tracer 1.52.2

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* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/AbstractLifecycleListener.java
*
/apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/Tracer.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metadata/CloudOrigin.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/BaggageContextBuilder.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metadata/Db.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metadata/Message.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/configuration/LoggingConfiguration.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/dispatch/TextHeaderGetter.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/pooling/ObjectPool.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/service/Node.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/dispatch/HeaderUtils.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/ServiceTarget.java
*
/apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/ServiceOrigin.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metrics/DslJsonUtil.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/TransactionContext.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metadata/Destination.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metadata/PotentiallyMultiValuedMap.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/configuration/CoreConfiguration.java
* /apm-agent-tracer-1-52-2-sources-jar/co/elastic/apm/agent/tracer/metadata/Response.java

1.290 commons-compress 1.28.0

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1.291 httpcore-nio 4.4.5

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```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

 <title>Apache License, Version 2.0</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
 rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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 -->

</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">

    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     Toggle navigation

    </button>

    Home &raquo Licenses
    <ul class="nav navbar-nav navbar-right">
     <li class="dropdown">
      About
      <ul class="dropdown-menu" role="menu">
       Overview
       Members
       Process
       Sponsorship
       Glossary
       FAQ
       Contact

  Projects
   <li class="dropdown">
     People
     <ul class="dropdown-menu" role="menu">
    Overview
    Committers
    Meritocracy

```
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
     <li><a href="http://planet.apache.org/">Planet Apache</a></li>
       </ul>
      </li>
      <li class="dropdown">
       <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
       <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
      <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
      <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
       </ul>
   </li>
      <li><a href="/dyn/closer.cgi">Download</a></li>
      <li class="dropdown">
       <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
       <ul class="dropdown-menu" role="menu">

   <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
       </ul>
      </li>
     </ul>
   </div>
  </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
     <div class="col-md-6 col-sm-5 col-xs-12">
   <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  </div>
  <div class="col-md-3 col-sm-3 col-xs-6">
  <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
   <img src="/images/SupportApache-small.png" style="height: 150px; width: 150px; margin-top: 5px; margin-
bottom: 5px;">
  </a>
  </div>
  <div class="col-md-3 col-sm-4 col-xs-6">
   <div class="input-group" style="margin-bottom: 5px;">
   <script>
 (function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
```

```
    var gcse = document.createElement('script');
   gcse.type = 'text/javascript';
   gcse.async = true;
   gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
      '//cse.google.com/cse.js?cx=' + cx;
   var s = document.getElementsByTagName('script')[0];
   s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
   </div>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
   <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
   </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink",
 except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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    Conferences
    Summer of Code
    Getting Started
    <a
 href="/foundation/how-it-works.html">The Apache Way
    Travel Assistance

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    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
    <li><a href="/memorials/">Memorials</a></li>
        </ul>
  </div>

  <div class="col-sm-2">
   <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
  </div>

  <div class="col-sm-2">
   <h5 class="white">Tech Operations</h5>
       <ul class="list-unstyled
white" role="menu">
     <li><a href="/dev/">Developer Information</a></li>
     <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
     <li><a href="/security/">Security</a></li>
     <li><a href="http://status.apache.org">Status</a></li>
     <li><a href="/foundation/contact.html">Contacts</a></li>
       </ul>
  </div>

  <div class="col-sm-2">
   <h5 class="white">Press</h5>
     <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
     </ul>
  </div>

  <div class="col-sm-2">
   <h5 class="white">Legal</h5>
     <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a
href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
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    <li><a href="/foundation/records/">Public Records</a></li>
        <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
   </div>

   <div class="col-sm-1">
   </div>

  </div>
  <hr class="col-lg-12 hr-white" />
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   </div>
  </div>
 </div>

</footer>

<!--
 / Footer -->

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<script src="/js/bootstrap.js"></script>
</body>
</html>
```

1.292 apm-aws-sdk-2-plugin 1.52.2

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1.294 bcprov-jdk18on 1.79

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a

* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
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* An implementation of RFC 7253 on The OCB
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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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*
*
* NIST submission files
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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
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*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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*
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*
* @see NIST round 3 PQC submissions page

* @see NTRU website
* @see NTRU specification
*/

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1.295 jakarta-json-api 2.0.2

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javax.ws.rs:jsr311-api:jar:1.1.1 (1.1.1)

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javax:javaee-web-api:jar:7.0 (7.0)

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 /spring-orm-6-1-19-sources-jar/org/springframework/orm/jpa/vendor/SpringHibernateJpaPersistenceProvider.java
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* /spring-orm-6-1-19-sources-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java
* /spring-orm-6-1-19-sources-jar/org/springframework/orm/jpa/vendor/HibernateJpaVendorAdapter.java
* /spring-orm-6-1-19-sources-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaVendorAdapter.java
* /spring-orm-6-1-19-sources-jar/org/springframework/orm/hibernate5/SpringBeanContainer.java
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/**
  * Create a transactional EntityManager proxy for the given EntityManagerFactory.
  * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
  * @param properties the properties to be passed into the
  * {@code createEntityManager} call (may be {@code null})
  * @param entityManagerInterfaces
 the interfaces to be implemented by the
  * EntityManager. Allows the addition or specification of proprietary interfaces.
  * @return a shareable transactional EntityManager proxy
  */
```

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1.304 aop-alliance 1.0

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1.305 metrics-health-checks 4.2.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 17
Bundle-Description: An addition to Metrics which provides the ability
to run application-specific health checks, allowing you to che
ck your application's heath in production.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks
Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.2.25
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.2.25",com.codahale.metrics.health.annotation;version="4
.2.25",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.he
alth,com.codahale.metrics.jvm";version="4.2.25"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.2.25

Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.codahale.metrics.health,com.codahale.metrics.h
ealth.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolutio
n:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-healthchecks-4-2-25-jar/META-INF/MANIFEST.MF

1.306 arrow-vector 18.3.0

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1.308 simpleclient 0.16.0

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1.309 apm-ecs-logging-plugin 1.52.2

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1.310 spring-framework 6.1.19

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* /spring-core-6-1-19-sources-jar/org/springframework/util/comparator/InstanceComparator.java
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/spring-core-6-1-19-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/LinkedMultiValueMap.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/SortedProperties.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-6-1-19-sources-
jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertyResolver.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/FileUrlResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/Deserializer.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/metrics/ApplicationStartup.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/CommonsLogWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/AliasRegistry.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
*
/spring-core-6-1-19-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/log/LogAccessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/serializer/Serializer.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/AttributeAccessor.java
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 /spring-core-6-1-19-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/asm/SpringAsmInfo.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-6-1-19-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
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* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
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 /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/EmitUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/LazyLoaderGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Mixin.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastClass.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
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* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AbstractClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/TypeUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddStaticInitTransformer.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/CollectionUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MethodProxy.java
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* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DefaultNamingPolicy.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DebuggingClassWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassFilterTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/MethodWrapper.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/NoOpGenerator.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/DefaultResourceLoader.java

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* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferInputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/MemberHint.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Netty5BufferEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/ProxyHintsPredicates.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
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 /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/FieldHint.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ProxyHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
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* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/SimpleReflectiveProcessor.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/ConditionalHint.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/concurrent/FailureCallback.java

* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
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 /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/type/ClassMetadata.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/InvalidMimeTypeException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/WritableResource.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/DecodingException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ResolvableTypeProvider.java

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* /spring-core-6-1-19-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
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* /spring-core-6-1-19-sources-jar/org/springframework/asm/RecordComponentVisitor.java
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* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/annotation/Reflective.java
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* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/JavaSerializationHint.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/unit/DataSize.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/OrderUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java

* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/function/ThrowingBiFunction.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/Decoder.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/StringToRegexConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
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jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
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* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
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* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
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 /spring-core-6-1-19-sources-
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* /spring-core-6-1-19-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
* /spring-core-6-1-19-sources-

jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/AccessibleInstantiator.java
* /spring-core-6-1-19-sources-
jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
*
/spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/basic/ConstructorInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiatorBase.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
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/spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/Objenesis.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /spring-core-6-1-19-sources-
jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
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* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Block.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/InvocationHandler.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassReaderGenerator.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BulkBeanException.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassTransformerTee.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Callback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/LazyLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/NoOp.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/ProxyRefDispatcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/ConstructorDelegate.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddPropertyTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/CodeGenerationException.java
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 /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/TransformingClassGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Predicate.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AccessFieldTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/FieldProviderTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldFilter.java
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* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Converter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/FixedValue.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Customizer.java
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 /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/Dispatcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassEmitterTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassFilter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/TransformingClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassVisitorTee.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastMember.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/ParallelSorter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DefaultGeneratorStrategy.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AbstractClassTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/MethodVisitorTee.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddDelegateTransformer.java
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 /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/StringSwitcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Local.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassEmitter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/ParallelSorterEmitter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Transformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/util/SorterTemplate.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MixinBeanEmitter.java

* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/MethodFilter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ObjectSwitchCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassesKey.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BeanGenerator.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/FieldVisitorTee.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AnnotationVisitorTee.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/ClassTransformerFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/MethodFilterTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ProcessSwitchCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/beans/BulkBean.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/reflect/FastConstructor.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Constants.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/GeneratorStrategy.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/Signature.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ProcessArrayCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldEnabled.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/ClassNameReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/DuplicatesPredicate.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/FieldProvider.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
*

/spring-core-6-1-19-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/OverridingClassLoader.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
*
/spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/PathMatcher.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/ReactiveAdapter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/MultiValueMap.java

* /spring-core-6-1-19-sources-jar/org/springframework/core/Ordered.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/RouteMatcher.java
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* /spring-core-6-1-19-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/FilePatternResourceHintsRegistrar.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/SpringFactoriesLoaderRuntimeHints.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/SpringProperties.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/TaskRejectedException.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
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* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/TypeVariableName.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/AnnotationSpec.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/WildcardTypeName.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/javapoet/Util.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/FieldSpec.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/ParameterizedTypeName.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/ArrayTypeName.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/ParameterSpec.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/CodeBlock.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/TypeName.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/NameAllocator.java
* /spring-core-6-1-19-sources-jar/org/springframework/javapoet/MethodSpec.java
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* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/MixinEverythingEmitter.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AddInitTransformer.java
*
 /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackInfo.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/AbstractClassFilterTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/MethodInfoTransformer.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/InterfaceMaker.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/core/MethodInfo.java
* /spring-core-6-1-19-sources-jar/org/springframework/cglib/proxy/CallbackHelper.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/FileSystemResource.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/task/VirtualThreadTaskExecutor.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/task/VirtualThreadDelegate.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/generate/DefaultGenerationContext.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/JdkProxyHintExtensions.kt
* /spring-core-6-1-19-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/support/EncodedResource.java
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* /spring-core-6-1-19-sources-jar/org/springframework/aot/hint/support/ClassHintUtils.java
* /spring-core-6-1-19-sources-
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/AbstractResource.java
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* /spring-core-6-1-19-sources-jar/org/springframework/core/io/PathResource.java
* /spring-core-6-1-19-sources-
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* /spring-core-6-1-19-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
* /spring-core-6-1-19-sources-jar/org/springframework/util/backoff/BackOff.java
* /spring-core-6-1-19-sources-jar/org/springframework/aot/nativex/ResourceHintsWriter.java
* /spring-core-6-1-19-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
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1.316 hibernate-validator 7.0.2.Final

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*/
/**
 * Retrieves constraint related meta data for the parameters of the given
```

```
 * executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */
```

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 ~
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```

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* /hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-mapping-3.0.xsd
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*
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*/
/**
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* {@link jakarta.validation.ParameterNameProvider}. The default provider will
* return
 the actual parameter names, if the -parameters compiler option
* has been enabled, and {@code arg0}, {@code arg1} etc. otherwise.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* {@code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
```

* @author Gunnar Morling
*/

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* /hibernate-validator-7-0-2-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-mapping-2.0.xsd
* /hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-mapping-1.0.xsd
* /hibernate-validator-7-0-2-final-sources-jar/org/hibernate/validator/overview.html
* /hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-mapping-1.1.xsd
* /hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-configuration-2.0.xsd

1.317 tika-parser-apple-module 3.2.2

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1.319 jmespath-java 1.12.261

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1.320 apm-mongodb4-plugin 1.52.2

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1.334 objenesis 3.3

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1.335 spring-tx 6.1.19

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jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
*
 /spring-tx-6-1-19-sources-jar/org/springframework/dao/EmptyResultDataAccessException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionUsageException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/InvalidIsolationLevelException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/NoTransactionException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/dao/TransientDataAccessResourceException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/dao/QueryTimeoutException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/dao/RecoverableDataAccessException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/jta/TransactionFactory.java
*
 /spring-tx-6-1-19-sources-jar/org/springframework/transaction/TransactionTimedOutException.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /spring-tx-6-1-19-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
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* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
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jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
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jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
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jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
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 /spring-tx-6-1-19-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
* /spring-tx-6-1-19-sources-jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
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1.336 asm-analysis 9.8

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* /asm-analysis-9-8-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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 /asm-analysis-9-8-sources-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-analysis-9-8-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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* /asm-analysis-9-8-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-analysis-9-8-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
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1.337 log4j-slf4j-impl 2.19.0

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1.338 jul-to-slf4j 2.0.16

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* /apm-agent-plugin-sdk-1-52-2-sources-
jar/co/elastic/apm/agent/sdk/internal/PluginClassLoaderRootPackageCustomizer.java
*
 /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/collections/LRUCacheFactory.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/bytebuddy/CustomElementMatchers.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/collections/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/pooling/ObjectPooling.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/logging/Logger.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/bytebuddy/ClassNameParser.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/ElasticApmInstrumentation.java
* /apm-agent-plugin-sdk-1-52-2-sources-
jar/co/elastic/apm/agent/sdk/bytebuddy/AnnotationValueOffsetMappingFactory.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/state/GlobalVariables.java
*
 /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/db/signature/Scanner.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/util/LoggerUtils.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/logging/LoggerFactory.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/NonnullApi.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/collections/LRUCache.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/util/VersionUtils.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/logging/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/DynamicTransformer.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/state/GlobalState.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/weakconcurrent/package-info.java

*
 /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/weakconcurrent/WeakSet.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/bytebuddy/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/logging/ILoggerFactory.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/util/ExecutorUtils.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/util/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/pooling/ObjectHandle.java
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* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/state/CallDepth.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/ThreadUtil.java
*
 /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/InternalUtil.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/weakconcurrent/WeakConcurrent.java
* /apm-agent-plugin-sdk-1-52-2-sources-
jar/co/elastic/apm/agent/sdk/bytebuddy/SimpleMethodSignatureOffsetMappingFactory.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/db/signature/package-info.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/collections/LongList.java
* /apm-agent-plugin-sdk-1-52-2-sources-
jar/co/elastic/apm/agent/sdk/weakconcurrent/WeakKeySoftValueLoadingCache.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/db/signature/SignatureParser.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/db/signature/ScannerFilter.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/state/package-info.java
*
 /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/weakconcurrent/WeakMap.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/weakconcurrent/DetachedThreadLocal.java
* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/internal/util/PrivilegedActionUtils.java
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* /apm-agent-plugin-sdk-1-52-2-sources-jar/co/elastic/apm/agent/sdk/bytebuddy/Version.java

1.340 lucene-codecs 9.12.2

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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https://snowballstem.org/

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analysis/common/src/org/apache/lucene/analysis/en
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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
See http://members.unine.ch/jacques.savoy/clef/index.html.

The
German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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Stempel analyzer (stempel) includes BSD-licensed software developed
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
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(https://github.com/morfologik/morfologik-stemming)
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data from the BSD-licensed dictionary of Polish (SGJP, http://sgjp.pl/morfeusz/).

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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java

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1.342 caffeine 3.1.8

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1.343 apm-struts-plugin 1.52.2

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1.346 apm-agent-common 1.52.2

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1.347 protobuf-java-util 3.25.5

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1726689423746
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf.util;version="3.25.5";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
mmon.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",
com.google.common.primitives;version="[32.0,33)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool:
 Bnd-6.4.0.202211291949
Created-By: mergejars

Found in path(s):
* /protobuf-java-util-3-25-5-jar/META-INF/MANIFEST.MF

1.348 snake-yaml 2.0

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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

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/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
* source-code.biz/base64coder/java</a><br>
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/Property.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/DumperOptions.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java

* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/Mark.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
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/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
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1.353 error_prone_annotations 2.26.1

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Manifest-Version: 1.0
Created-By: Maven JAR Plugin 3.2.2
Build-Jdk-Spec: 17
Multi-Release: true
Bundle-Description: Error Prone is a static analysis tool for Java that
catches common programming mistakes at compile-time.
Bundle-DocURL: https://errorprone.info/error_prone_annotations
Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENS
E-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: error-prone annotations
Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annot
ations",connection="scm:git:https://github.com/google/error-prone.git/e
rror_prone_annotations",developer-connection="scm:git:git@github.com:go
ogle/error-prone.git/error_prone_annotations",tag=HEAD
Bundle-SymbolicName: com.google.errorprone.annotations
Bundle-Vendor: Google LLC
Bundle-Version: 2.26.1
Export-Package: com.google.errorprone.annotations;uses:="javax.lang.mode
l.element";version="2.26.1",com.google.errorprone.annotations.concurren
t;version="2.26.1"
Import-Package: javax.lang.model.element
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

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1.354 apache-log4j 2.12.4

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Nori Korean Morphological Analyzer - Apache Lucene Integration
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* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragmentsDecorator.java
*
 /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
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* /spring-beans-6-1-19-sources-
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/InstanceSupplierCodeGenerator.java
*

/spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanWrapperImpl.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/PropertyComparator.java
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*
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/**
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  * <p>Processors are free to use any techniques they like to analyze the given
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  * use in the
 contribution. Contributions typically generate source code or
  * resource files that can be used when the AOT optimized application runs.
  * <p>If the given bean factory does not contain anything that is relevant to
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  * @param beanFactory the bean factory to process
  * @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
  */

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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedMap.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AutowiredArguments.java
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 /spring-beans-6-1-19-sources-jar/org/springframework/beans/SimpleBeanInfoFactory.java
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jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationCode.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCode.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedList.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /spring-beans-6-1-19-sources-
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeMismatchException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsCode.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
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jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotContribution.java
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*/
/**
  * Process the given {@link RegisteredBean} instance ahead-of-time and
  * return a contribution or {@code null}.
  * <p>
  * Processors are free to use any techniques they like to analyze the given
  * instance. Most typically use reflection to find fields or methods to use
  * in the contribution. Contributions
 typically generate source code or
  * resource files that can be used when the AOT optimized application runs.
  * <p>
  * If the given instance isn't relevant to the processor, it should return a
  * {@code null} contribution.
  * @param registeredBean the registered bean to process
  * @return a {@link BeanRegistrationAotContribution} or {@code null}
  */
```

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```

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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java

* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/Problem.java
*
 /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanWrapper.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/FatalBeanException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
*
 /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/Location.java
*
 /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java
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/spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/ParserContext.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Autowired.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanUtilsRuntimeHints.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/ArgumentConvertingMethodInvoker.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AutowiredElementResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanMetadataAttribute.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyAccessorUtils.java

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/spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeConverterSupport.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /spring-beans-6-1-19-sources-
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ReplaceOverride.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ParseState.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/MutableSortDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyValue.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/InstanceSupplier.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ExtendedBeanInfo.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/MethodOverride.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotContribution.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/AutowiredFieldValueResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
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/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ManagedProperties.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/RuntimeBeanNameReference.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyPathFactoryBean.java
*

/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanCreationException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeGenerator.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/StandardBeanInfoFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationAotContribution.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/NullBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/UUIDEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
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/spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyBatchUpdateException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/BeanMetadataElement.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/TypeConverter.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/URLEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/NamedBean.java
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* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/NullValueInNestedPathException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Value.java

* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
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 /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/ScopeNotActiveException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/FactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanExpressionException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/ConversionNotSupportedException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
*

/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/BeanReference.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanFactoryAware.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/annotation/Configurable.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/support/SortDefinition.java
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/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionPropertyValueCodeGeneratorDelegates.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
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jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
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 /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/Mergeable.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/PropertyMatches.java
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 /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/InitializingBean.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/DisposableBean.java
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 /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
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* /spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
*
/spring-beans-6-1-19-sources-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
* /spring-beans-6-1-19-sources-
jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
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1.364 azure-xml 1.1.0

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1.365 hikaricp 5.1.0

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* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyStatement.java
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* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
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* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java

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1.366 opentelemetry-context 1.29.0

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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/RefreshAheadCachingJWKSetSource.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/RetryingJWKSetSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSetSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSourceBuilder.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/AbstractCachingJWKSetSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSetUnavailableException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/URLBasedJWKSetSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSetSourceWrapper.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/RateLimitedJWKSetSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/RateLimitReachedException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/CachingJWKSetSource.java

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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/DirectCryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/CipherHelper.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/MultiCryptoProvider.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/ThumbprintURI.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/health/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/utils/ConstantTimeUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/gen/RSAKeyGenerator.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/JWEHeaderValidation.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/DefaultJOSEObjectTypeVerifier.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/JWKException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/EdDSAProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AlgorithmSupportMessage.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/BaseJWSProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ConcatKDF.java
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 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AAD.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AuthenticatedCipherText.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/health/HealthReportListener.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/opts/AllowWeakRSAKey.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/IllegalHeaderException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/AESEncrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/health/HealthReport.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/BoundedInputStream.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/KeyRevocation.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/gen/ECKeyGenerator.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/IOUtils.java

* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/ForceRefreshJWKSetCacheEvaluator.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSA_OAEP.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/ActionRequiredForJWSCompletionException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ContentCryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/events/EventListener.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AlgorithmParametersHelper.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/JSONStringUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/opts/OptionUtils.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ECDH.java
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 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/AbstractJWKSetSourceEvent.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSASSAProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/HeaderValidation.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSetWithTimestamp.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/BaseJWEProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/cache/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/JWKSecurityContext.java
* /nimbus-jose-jwt-10-0-2-sources-
jar/com/nimbusds/jose/jwk/source/ReferenceComparisonRefreshJWKSetEvaluator.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/JWTClaimsSetAwareJWSKeySelector.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/utils/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/Container.java
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 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/LegacyConcatKDF.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/opts/UserAuthenticationRequired.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/produce/JWSSignerFactory.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/IntegerOverflowException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSACryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSA_OAEP_SHA2.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/CompletableJWSObjectSigning.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/gen/JWKGenerator.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/events/Event.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ECDSA.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/NoRefreshJWKSetCacheEvaluator.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AESGCMKW.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/CompositeKey.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/gen/OctetSequenceKeyGenerator.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/events/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/opts/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AESKW.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/Curve.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSAKeyUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSASSA.java

* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/DeflateHelper.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/PasswordBasedCryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/CurveBasedJWK.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWSSignerOption.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/DefaultJWKSetCache.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/health/HealthStatus.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/KeyUseAndOpsConsistency.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSetCache.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AESCryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/produce/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/RSA1_5.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/utils/ECChecks.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/gen/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/PasswordLookup.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/package-info.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/CriticalHeaderParamsDeferral.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/cache/CachedObject.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ECDSAProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AESCBC.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/X25519Decrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/JWKSet.java
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 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/Base64Codec.java

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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/MACProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWEObjectJSON.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/HMAC.java

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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/AESGCM.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/OctetKeyPair.java

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```
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/JWTClaimsSetTransformer.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWSVerifier.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/SimpleSecurityContext.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWSHeader.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDSAVerifier.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/RemoteKeySourceException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/ConfigurableJOSEProcessor.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/JWK.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/Header.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/EncryptionMethod.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWEObject.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/Payload.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/PlainJWT.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/util/package-info.java
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 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/ByteUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWSObject.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jca/JCAAware.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JOSEException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/X509CertChainUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/RemoteJWKSet.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/CompressionAlgorithm.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/JSONObjectUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/MultiDecrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/BigIntegerUtils.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/EncryptedJWT.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/JOSEProcessor.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JOSEObjectType.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/MACVerifier.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/RestrictedResourceRetriever.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/KeyConverter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWEDecrypterFactory.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/ClockSkewAware.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/JWTClaimsSetVerifier.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/JWT.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWEDecrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/JWSKeySelector.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JOSEObject.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/ConfigurableJWTProcessor.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWECryptoParts.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/DateUtils.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/DirectEncrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/ResourceRetriever.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWEHeader.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/ImmutableSecret.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/JWTProcessor.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/AbstractJWKSelectorWithSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/PlainObject.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/DefaultJWTClaimsVerifier.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/DirectDecrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/RSADecrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/RSASSASigner.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDHDecrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/SecretJWK.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSource.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/Base64.java

* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/DeflateUtils.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/ArrayUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jca/JWEJCAContext.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/PlainHeader.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDSASigner.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/DefaultResourceRetriever.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/KeyLengthException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/ECParameterTable.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/KeyOperation.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/KeyTypeException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/BadJOSEException.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWSVerifierFactory.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/KeyUse.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/BadJWEException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/proc/BadJWSException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JWEProvider.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/util/IntegerUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/JOSEObjectJSON.java

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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/ThumbprintUtils.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/factories/package-info.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jwt/proc/BadJWTException.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/KeyException.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jca/JCAContext.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/mint/package-info.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/XC20P.java
*
 /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ECDH1PUCryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ECDH1PU.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDH1PUEncrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDH1PUX25519Encrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDH1PUDecrypter.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/ECDH1PUX25519Decrypter.java
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* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java
* /nimbus-jose-jwt-10-0-2-sources-jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
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* /asm-9-8-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
*
/asm-9-8-sources-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-8-sources-jar/org/objectweb/asm/Handle.java
* /asm-9-8-sources-jar/org/objectweb/asm/MethodWriter.java
* /asm-9-8-sources-jar/org/objectweb/asm/Attribute.java
* /asm-9-8-sources-jar/org/objectweb/asm/Symbol.java
* /asm-9-8-sources-jar/org/objectweb/asm/Type.java
* /asm-9-8-sources-jar/org/objectweb/asm/Handler.java
* /asm-9-8-sources-jar/org/objectweb/asm/ClassReader.java
* /asm-9-8-sources-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-9-8-sources-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-9-8-sources-jar/org/objectweb/asm/RecordComponentWriter.java
* /asm-9-8-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-9-8-sources-jar/org/objectweb/asm/SymbolTable.java
* /asm-9-8-sources-jar/org/objectweb/asm/Opcodes.java
* /asm-9-8-sources-jar/org/objectweb/asm/CurrentFrame.java
* /asm-9-8-sources-jar/org/objectweb/asm/Label.java
* /asm-9-8-sources-jar/org/objectweb/asm/ModuleWriter.java
* /asm-9-8-sources-jar/org/objectweb/asm/Context.java
*
/asm-9-8-sources-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-8-sources-jar/org/objectweb/asm/ClassTooLargeException.java
* /asm-9-8-sources-jar/org/objectweb/asm/Edge.java
* /asm-9-8-sources-jar/org/objectweb/asm/FieldWriter.java
* /asm-9-8-sources-jar/org/objectweb/asm/Frame.java
* /asm-9-8-sources-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-9-8-sources-jar/org/objectweb/asm/FieldVisitor.java
* /asm-9-8-sources-jar/org/objectweb/asm/ClassWriter.java
* /asm-9-8-sources-jar/org/objectweb/asm/TypePath.java
* /asm-9-8-sources-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-9-8-sources-jar/org/objectweb/asm/TypeReference.java
* /asm-9-8-sources-jar/org/objectweb/asm/signature/SignatureReader.java
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<!--
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1.372 commons-collections 4.5.0

1.372.1 Available under license :

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```

1.373 bouncy-castle 1.79

1.373.1 Available under license :

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
*
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
*
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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/**
   * Magic value for proprietary OpenSSH private key.
   **/

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* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
*
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
*
* Text reproduced below.
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* Phillip Rogaway >rogaway@cs.ucdavis.edu< Sat, 27 February 2021 02:46 UTCShow header
*
* I can confirm that I have abandoned all OCB patents

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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
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*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page

* @see NTRU website
* @see NTRU specification
*/

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// now keep space is free to use

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1.374 failureaccess 1.0.1

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/opt/cola/permits/2665668644_1759873713.7185001/0/failureaccess-1-0-1-sources-15-jar/com/google/common/util/concurrent/internal/InternalFutures.java/*

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Found in path(s):
* /failureaccess-1-0-1-sources-15-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

1.375 netty-buffer 4.1.126.Final

1.375.1 Available under license :

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/opt/cola/permits/2658279967_1760733771.7114356/0/netty-buffer-4-1-126-final-jar/META-INF/maven/io.netty/netty-buffer/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2658279967_1760733771.7114356/0/netty-buffer-4-1-126-final-jar/META-INF/native-image/io.netty/netty-buffer/native-image.properties# Copyright 2019 The Netty Project

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*
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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.buffer
Built-By: root
Bnd-LastModified: 1756905893986
Specification-Title: Netty/Buffer
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurre
nt;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.nett
y.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opti
onal,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.e
clipse.jetty.alpn;version="[1,2)";resolution:=optional,org.bouncycast
le.jcajce.provider;version="[1.0,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.126
",io.netty.buffer.search;uses:="io.netty.util";version="4.1.126"
Bundle-Name: Netty/Buffer
Build-Jdk-Spec:
 1.8
Implementation-Title: Netty/Buffer
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.buffer
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final

Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-buffer/

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1.376 jersey-media-jaxb 3.1.8

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* https://github.com/eclipse-ee4j/jersey

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* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
*
 /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/SimpleOptionNameMap.java
*
 /jopt-simple-5-0-4-sources-8-jar/joptsimple/MultipleArgumentsForOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/util/KeyValuePair.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/IllegalOptionSpecificationException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionMissingRequiredArgumentException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java
*
 /jopt-simple-5-0-4-sources-8-jar/joptsimple/util/InetAddressConverter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecTokenizer.java

* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ReflectionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/OptionNameMap.java
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1.385 metrics-json 4.2.19

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1.387 tika 3.2.2

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* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/SrcsetAttributePolicy.java

* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/examples/EbayPolicyExample.java
* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/Sanitizers.java
* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/TokenStream.java
* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/AllExamples.java
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/owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/AttributePolicy.java
* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/StylingPolicy.java
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* /owasp-java-html-sanitizer-20211018-2-sources-4-
jar/org/owasp/html/ElementAndAttributePolicyBasedSanitizerPolicy.java
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* /owasp-java-html-sanitizer-20211018-2-sources-4-
jar/org/owasp/html/TagBalancingHtmlStreamEventReceiver.java
* /owasp-java-html-sanitizer-20211018-2-sources-4-jar/org/owasp/html/HtmlStreamEventReceiver.java
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1.389 jackson-xc 2.19.2

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1.390 lanterna 3.1.1

1.391 guava 33.2.1-jre

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1.393 apm-reactor-plugin 1.52.2

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jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
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jar/org/springframework/web/context/request/async/AsyncRequestNotUsableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/support/HttpComponentsHeadersAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/HttpWebHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerSentEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/UnknownContentTypeException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/HandlerMethodValidationException.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ReactorNettyClientRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ChannelSendOperator.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/client/observation/DefaultClientRequestObservationConvention.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JdkClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/support/JettyHeadersAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/InvocableHandlerMethod.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/StringHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpResponse.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/filter/DelegatingFilterProxy.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/ModelFactory.java

* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/ForwardedHeaderTransformer.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServletServerHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/SessionAttributesHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/HandlerMethodValidator.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/DefaultRestClientBuilder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpConnector.java
*
/spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/PatchMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/DefaultUriBuilderFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/HttpAccessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/ServletWebRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpHeaders.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ServletRequestPathUtils.java
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/spring-web-6-1-19-sources-jar/org/springframework/web/util/ContentCachingRequestWrapper.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/bind/annotation/ControllerMappingReflectiveProcessor.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/service/invoker/AbstractNamedValueArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JettyClientHttpConnector.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpServiceMethod.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/InterceptingClientHttpRequest.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/client/reactive/HttpComponentsClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/MediaTypeFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/KotlinSerializationStringEncoder.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/util/UrlPathHelper.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestClient.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/JdkClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/AbstractJackson2Decoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestTemplate.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/CacheControl.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServletServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/support/Netty5HeadersAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/RequestHandledEvent.java

*
/spring-web-6-1-19-sources-jar/org/springframework/web/server/ResponseStatusException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/ForwardedHeaderFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/PathPattern.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/JacksonModulesRuntimeHints.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/reactive/ServerHttpObservationFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ReactorNettyClientRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/GetMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/MultipartFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/xml/AbstractXmlHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestOperations.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HtmlCharacterEntityReferences.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ContentCachingResponseWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractListenerWriteProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/DefaultErrorResponseBuilder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/DeleteMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/JettyHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/PostMapping.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/xml/JaxbContextContainer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/HandlerMethod.java
*
/spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/support/RestClientAdapter.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/AbstractRequestAttributes.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/http/ZeroCopyHttpOutputMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/LoggingCodecSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ResponseExtractor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/CorsProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/FilteringWebHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpLogging.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpOutputMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestParam.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/web/context/ServletContextAware.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/GroovyWebApplicationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ResponseErrorHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageNotReadableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/ErrorsMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/SslInfo.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestBody.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ServletConfigAware.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageDecoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ContextPathCompositeHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageEncoder.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/ExpressionValueMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/CodecConfigurerFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/InitBinderDataBinderFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpSessionRequiredException.java

* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/InvalidMediaTypeException.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/web/filter/CharacterEncodingFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/HttpHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpInputMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/BufferingClientHttpRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestHeader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriTemplateHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/MatrixVariable.java
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 /spring-web-6-1-19-sources-jar/org/springframework/web/server/WebSession.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ResponseBody.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ParameterContentNegotiationStrategy.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/XmlWebApplicationContext.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpClientErrorException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpStatusCodeException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextScope.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RestOperationsExtensions.kt

* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ClientHttpRequestInitializer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServerHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/handler/WebHandlerDecorator.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
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*/
/**
  * Return the web session for the current request. Always guaranteed to
  * return an instance either matching to the session id requested by the
  * client, or with a new session id either because the client did not
  * specify one or because the underlying session had expired. Use of this
  * method
 does not automatically create a session. See {@link WebSession}
  * for more details.
  */

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* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerWebExchange.java
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This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#

```
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types.  File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# MIME type (lowercased)   Extensions
# ============================================ ==========
#
 application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
```

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* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextPropertySource.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ClientHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/DefaultRequestPath.java
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 /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/RequestParamMapMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriBuilderFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/AbstractJsonHttpMessageConverter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/CorsFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/WebRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/StandardServletPartUtils.java
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 /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ResourceHttpMessageReader.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/server/DelegatingServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractClientHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java

*
/spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/CorsProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/NativeWebRequest.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/UriComponentsContributor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/SessionAttributeStore.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/Part.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/RequestAttributes.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/i18n/LocaleContextResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/ProxyFactoryBean.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/async/TimeoutCallableProcessingInterceptor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FormFieldPart.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RestController.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/MappingJacksonInputMessage.java
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jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufDecoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/PathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingRequestHeaderException.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingMatrixVariableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpMethodArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/DefaultSslInfo.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpMediaTypeException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/client/observation/ClientRequestObservationConvention.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/UnsatisfiedRequestParameterException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/UndertowHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/MissingServletRequestPartException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/HttpRequestWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/ErrorResponseException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/SeparatorPathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/RequestPath.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
*

/spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/PatchExchange.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/NotAcceptableStatusException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/observation/ServerRequestObservationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/HandlerMethodReturnValueHandlerComposite.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/MapMethodProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/GenericFilterBean.java
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/spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/HttpExchangeReflectiveProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ExceptionHandlerReflectiveProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/RequestEntity.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/BaseDefaultCodecs.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/WebSessionStore.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/UnsatisfiedServletRequestParameterException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/KotlinSerializationJsonHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/RequestParamArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/OncePerRequestFilter.java
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/spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ModelAttribute.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/UrlArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/CookieGenerator.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/ContentNegotiationManager.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/WebApplicationContextUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/PathPatternRouteMatcher.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/ServerDefaultCodecsImpl.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2SmileEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/IntrospectingClientHttpResponse.java
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/spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpServiceArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/AbstractReactiveWebInitializer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/RequestAttributeArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartEventHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/CaptureVariablePathElement.java
* /spring-web-6-1-19-sources-

jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ClientHttpResponseDecorator.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FilePartEvent.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/support/ClientDefaultCodecsImpl.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartHttpMessageWriter.java
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* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/method/HandlerTypePredicate.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/RequestContextListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonDecoder.java
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* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingRequestValueException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ContextCleanupListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ExtractingResponseErrorHandler.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/server/session/WebSessionIdResolver.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JdkHttpClientResourceFactory.java
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jar/org/springframework/http/converter/KotlinSerializationBinaryHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/MissingRequestValueException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/PutExchange.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/support/RestGatewaySupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2SmileDecoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/DecoderHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/FacesContextUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/EncoderHttpMessageWriter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/CaptureTheRestPathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/CodecConfigurerRuntimeHints.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/protobuf/KotlinSerializationProtobufHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborDecoder.java
* /spring-web-6-1-19-sources-

jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorNetty2HttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/MethodNotAllowedException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
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* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/KotlinSerializationStringHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/method/annotation/ModelMethodProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerErrorException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/KotlinSerializationBinaryEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartWriterSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufCodecSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerWebInputException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FormPartEvent.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageWriter.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/context/support/StandardServletEnvironment.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/CookieValueArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/JavaScriptUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/DefaultResponseErrorHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingRequestCookieException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/GetExchange.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/cbor/KotlinSerializationCborHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/PathVariableArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/PostExchange.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/filter/RelativeRedirectFilter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/smile/MappingJackson2SmileHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpMimeTypesRuntimeHints.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/annotation/DeleteExchange.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/server/reactive/observation/ServerRequestObservationConvention.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ClientCodecConfigurer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/RequestHeaderArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServletServerHttpResponse.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageNotWritableException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HttpSessionMutexListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/WebFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/WebFilterChain.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageConversionException.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/HttpComponentsClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
*
 /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServletHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/ServletRequestDataBinder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/JsonbHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/ObjectToStringHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/StreamingHttpOutputMessage.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/i18n/AcceptHeaderLocaleContextResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpCookie.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
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 /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/PartGenerator.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorNetty2ServerHttpRequest.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/BindParamNameResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/ShallowEtagHeaderFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/PathContainer.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/MediaType.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ResponseStatus.java
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* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/DefaultCorsProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/ReactorHttpExchangeAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/accept/MappingMediaTypeFileExtensionResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerWebExchangeDecorator.java
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 /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpConnector.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/WildcardPathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/OpaqueUriComponents.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/OkHttp3ClientHttpRequestFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/TomcatHttpHandlerAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebExchangeBindException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/ClientHttpResponseDecorator.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2Tokenizer.java

* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/observation/ClientHttpObservationDocumentation.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/server/ServerWebExchangeExtensions.kt
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/ServletRequestPathFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpStatus.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/ResponseEntity.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/RequestPartArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/StatusHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingPathVariableException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/support/RestTemplateAdapter.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebExchangeDataBinder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/ContextLoaderListener.java
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 /spring-web-6-1-19-sources-jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/BindErrorUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/CoWebFilter.kt
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/FormHttpMessageConverter.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/method/ControllerAdviceBean.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/RequestBodyArgumentResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/observation/ServerRequestObservationContext.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/ErrorResponse.java
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 /spring-web-6-1-19-sources-jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlDecoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartFileResource.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/ClientHttpResponse.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/FacesRequestAttributes.java

* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/LiteralPathElement.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/DefaultCorsProcessor.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/ReadOnlyHttpHeaders.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2CodecSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ReactorUriHelper.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpMethod.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/JettyClientHttpRequestFactory.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/server/ServletServerHttpAsyncRequestControl.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpClientAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/ResourceHttpMessageWriter.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/client/JettyClientHttpResponse.java

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* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
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* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriUtils.java
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/spring-web-6-1-19-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/request/RequestContextHolder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
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* /spring-web-6-1-19-sources-jar/org/springframework/http/client/OutputStreamPublisher.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/xml/Jaxb2Helper.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/reactive/ServerWebExchangeContextFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/AbstractJackson2Encoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2JsonEncoder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/HttpRequestValues.java
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/spring-web-6-1-19-sources-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/WebUtils.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/service/invoker/AbstractReactorHttpExchangeAdapter.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonMixin.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/service/invoker/ReactiveHttpRequestValues.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/HttpEntity.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/util/NestedServletException.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/service/annotation/HttpExchangeBeanRegistrationAotProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
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/spring-web-6-1-19-sources-jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/MultipartParser.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/TagUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/SingleCharWildcardedPathElement.java
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jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/CorsUtils.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/DefaultServerWebExchange.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/FormHttpMessageReader.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/HttpServerErrorException.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonXmlMixin.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/server/adapter/WebHttpHandlerBuilder.java
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/spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/ReactorResourceFactory.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/AbstractStreamingClientHttpRequest.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/CookieValue.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/multipart/FilePart.java
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* /spring-web-6-1-19-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/HttpRequestHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/client/RequestCallback.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageReader.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
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/spring-web-6-1-19-sources-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/HttpHandlerDecoratorFactory.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/converter/HttpMessageConverter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/converter/protobuf/ProtobufJsonFormatHttpMessageConverter.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/method/annotation/RequestHeaderMethodArgumentResolver.java

* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/WriteResultPublisher.java
* /spring-web-6-1-19-sources-
jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
*
/spring-web-6-1-19-sources-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/UriComponents.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/server/reactive/AbstractListenerServerHttpResponse.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartFile.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/client/reactive/JdkClientHttpConnector.java
* /spring-web-6-1-19-sources-
jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/filter/FormContentFilter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/SpringServletContainerInitializer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/WebApplicationInitializer.java
* /spring-web-6-1-19-sources-
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/spring-web-6-1-19-sources-jar/org/springframework/web/bind/annotation/RequestPart.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/codec/FormHttpMessageWriter.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-6-1-19-sources-
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* /spring-web-6-1-19-sources-jar/org/springframework/web/multipart/MultipartResolver.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /spring-web-6-1-19-sources-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /spring-web-6-1-19-sources-jar/org/springframework/http/server/reactive/UndertowHeadersAdapter.java
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/spring-web-6-1-19-sources-jar/org/springframework/http/codec/HttpMessageWriter.java
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1.396 msal4j 1.16.2

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1.398 logback-ecs-encoder 1.6.0

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1.399 apm-apache-httpclient5-plugin 1.52.2

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 /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jts/JtsPolyshapeWriter.java
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* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jackson/ShapesAsGeoJSONModule.java
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* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jackson/package-info.java
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* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/BaseShape.java
* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jts/JtsGeoJSONWriter.java
* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/WKTWriter.java
* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/SupportedFormats.java
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 /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jts/JtsWKTWriter.java
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* /spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/jts/JtsGeometry.java
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1.408 spring-web-mvc 6.1.19

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jar/org/springframework/web/servlet/mvc/condition/AbstractNameValueExpression.java
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jar/org/springframework/web/servlet/function/support/HandlerFunctionAdapter.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RouterFunctionBuilder.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-
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jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
*
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jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
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jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/RouterFunctions.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
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jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-

jar/org/springframework/web/servlet/function/PredicateResourceLookupFunction.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractView.java
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/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/DefaultServerRequest.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
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/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
 protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/
```

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/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletResponseMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ArgumentTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/TransformedResource.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
*

/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/EvalTag.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/AbstractController.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HttpServletBean.java
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/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/RenderingContext.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/TransformTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/View.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
*
 /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/function/AsyncServerResponse.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/CorsRegistry.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ContinuationHandlerMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
*
 /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/HandlerMapping.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PrincipalMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/BeanNameViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/ViewResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java
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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* {@link #locateSource detected} during response rendering. Users can either specify
* a specific entry in the
 model via the {@link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See {@link #getSourceTypes() here}
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure {@link #setOutputProperties output properties}
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
```

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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/form/OptionsTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/UrlTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/VersionResourceResolver.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/LocaleContextResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ParamAware.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
* /spring-webmvc-6-1-19-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
*

/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/ThemeTag.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
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* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/feed/AbstractRssFeedView.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/ResourceResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/tags/Param.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/resource/HttpResource.java

* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/JstlView.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/config/annotation/ResourceChainRegistration.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/view/InternalResourceView.java
*
/spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
* /spring-webmvc-6-1-19-sources-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java

1.409 spring-context 6.1.19

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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provides a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
 *
* @author Stephane Nicoll
* @since 4.1
*/
```

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* /spring-context-6-1-19-sources-jar/org/springframework/context/NoSuchMessageException.java
* /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /spring-context-6-1-19-sources-

jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
*
/spring-context-6-1-19-sources-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/HierarchicalMessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/SchedulingException.java
* /spring-context-6-1-19-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/EnableMBeanExport.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/Formatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/config/ContextNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/Phased.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/JmxException.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-6-1-19-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
*
/spring-context-6-1-19-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
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* /spring-context-6-1-19-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-
jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/CacheExtensions.kt
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/EnableAsync.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ResourceLoaderAware.java
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* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/CacheManagerExtensions.kt
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiCallback.java

* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
*
 /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/config/CacheAdviceParser.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/SmartApplicationListener.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A condition is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
*
 <p>The {@code @Conditional} annotation may be used in any of the following ways:
*
* as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes
* as a meta-annotation, for the purpose of composing custom stereotype
* annotations
* as a method-level annotation on any {@link Bean @Bean} method
*
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},

* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p>NOTE: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom composed annotation that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
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 /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Import.java

* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
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* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
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* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptEvalException.java
*
 /spring-context-6-1-19-sources-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Role.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventListenerFactory.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ComponentScans.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptEvaluator.java
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* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/format/AnnotationFormatterFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/annotation/Validated.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
* /spring-context-6-1-19-sources-
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Found in path(s):
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/SpringModelMBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java

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```

Found in path(s):

```
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/NoOpTaskScheduler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/NameMatchCacheOperationSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/ValidationUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/TypedValidator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventExpressionRootObject.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/Errors.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ApplicationObjectSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncResult.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ApplicationEventMulticaster.java
*
 /spring-context-6-1-19-sources-
jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/OneTimeTask.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ResourceElementResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Service.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/MessageSourceSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/ObjectNameManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/IntervalTask.java
* /spring-context-6-1-19-sources-
jar/org/springframework/ejb/config/LocalStatelessSessionBeanDefinitionParser.java
*
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/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Lazy.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncAnnotationAdvisor.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/ModelMap.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/FixedRateTask.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/SchedulingAwareRunnable.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/support/ScheduledTaskObservationDocumentation.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
*
/spring-context-6-1-19-sources-jar/org/springframework/validation/FieldError.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptEvaluator.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/JmxUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /spring-context-6-1-19-sources-
jar/org/springframework/validation/beanvalidation/BeanValidationBeanRegistrationAotProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationEventPublisher.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/number/PercentStyleFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationListener.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/SchedulingTaskExecutor.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/PropertySourceRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/TriggerContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Repository.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/Cacheable.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/index/CandidateComponentsIndex.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/AnnotatedElementKey.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/CompositeCronField.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/NullValue.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskSchedulerRouter.java
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jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ApplicationListenerDetector.java

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*
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jar/org/springframework/context/annotation/ContextAnnotationAutowireCandidateResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/EmptyMethodValidationResult.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/SimpleKey.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/NoOpCache.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiObjectFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Controller.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ProfileCondition.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
* /spring-context-6-1-19-sources-
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* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /spring-context-6-1-19-sources-
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* /spring-context-6-1-19-sources-jar/org/springframework/validation/BeanPropertyBindingResult.java
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* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/PeriodicTrigger.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanClientInterceptor.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
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* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/NoOpCacheManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/Trigger.java

* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/MethodBasedEvaluationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/support/ScheduledTaskObservationConvention.java
*
/spring-context-6-1-19-sources-jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/ApplicationContextAotGenerator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Profile.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/AbstractXmlApplicationContext.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventListenerMethodProcessor.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/DirectFieldBindingResult.java
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* /spring-context-6-1-19-sources-jar/org/springframework/validation/SmartValidator.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/support/FormattingConversionServiceRuntimeHints.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/Bean.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/BeanDefinitionDsl.kt
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
*
/spring-context-6-1-19-sources-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/SimpleCacheManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
* /spring-context-6-1-19-sources-
jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/LocaleContextHolder.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/support/FormattingConversionService.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExporter.java
*
/spring-context-6-1-19-sources-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java

* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Component.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/MethodValidationResult.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/aot/ApplicationContextInitializationCodeGenerator.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContextFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeConverters.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/BeanMethod.java
*
/spring-context-6-1-19-sources-jar/org/springframework/validation/method/MethodValidationException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportRuntimeHints.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/SourceFilteringListener.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ComponentScan.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CacheConfig.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/DelegatingMessageSource.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/support/SimpleValueWrapper.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/support/ScheduledTaskObservationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StandardScriptFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/MethodValidator.java
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* /spring-context-6-1-19-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java

* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java
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 /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/MessageSourceResolvable.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
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 /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-19-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
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jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/Task.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java

* /spring-context-6-1-19-sources-jar/org/springframework/stereotype/Indexed.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-6-1-19-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConditionContext.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
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/spring-context-6-1-19-sources-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportSelector.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/MapBindingResult.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
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* /spring-context-6-1-19-sources-jar/org/springframework/validation/MessageCodeFormatter.java
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/spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationStartupAware.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /spring-context-6-1-19-sources-
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* /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java

* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/RuntimeHintsBeanFactoryInitializationAotProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/BindingResult.java
*
/spring-context-6-1-19-sources-jar/org/springframework/ui/context/ThemeSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/SimpleTheme.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/AotApplicationContextInitializer.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/CglibClassHandler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/support/DelegatingThemeSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/ScheduledTask.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/Theme.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/MessageSourceAware.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/Caching.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
*

/spring-context-6-1-19-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/SimpleLocaleContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachingConfigurerSupport.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/LoggingCacheErrorHandler.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/aot/BeanFactoryInitializationAotContributions.java
*
/spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CacheEvict.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/TypeFilterUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/ContextAotProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/ExtendedModelMap.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/Model.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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/spring-context-6-1-19-sources-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
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* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
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jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/expression/BeanFactoryResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/EmbeddedValueResolverAware.java
* /spring-context-6-1-19-sources-
jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
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* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
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/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ImportRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/MBeanExportOperations.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/ScriptCompilationException.java
* /spring-context-6-1-19-sources-
jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/MessageSourceAccessor.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/annotation/NumberFormat.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
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/spring-context-6-1-19-sources-jar/org/springframework/validation/AbstractPropertyBindingResult.java
* /spring-context-6-1-19-sources-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/DependsOn.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiLocatorSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/FormatterRegistry.java
* /spring-context-6-1-19-sources-jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/Lifecycle.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiObjectLocator.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AdviceMode.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/AdviceModeImportSelector.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java

* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/MonthFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/YearFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
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jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/FilterType.java
*
/spring-context-6-1-19-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/i18n/LocaleContext.java
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* /spring-context-6-1-19-sources-jar/org/springframework/cache/support/CompositeCacheManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
*
/spring-context-6-1-19-sources-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/Schedules.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/Printer.java
*
/spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-6-1-19-sources-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-6-1-19-sources-
jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java

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* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/CronField.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /spring-context-6-1-19-sources-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/TaskScheduler.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/support/DefaultFormattingConversionService.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/ui/ConcurrentModel.java
* /spring-context-6-1-19-sources-jar/org/springframework/cache/annotation/CachingConfigurer.java
*
 /spring-context-6-1-19-sources-jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/support/BitsCronField.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/Scheduled.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/KotlinReflectionBeanRegistrationAotProcessor.java

* /spring-context-6-1-19-sources-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterUtils.java
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* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/annotation/Async.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/ParameterErrors.java
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* /spring-context-6-1-19-sources-jar/org/springframework/validation/method/ParameterValidationResult.java
* /spring-context-6-1-19-sources-jar/org/springframework/validation/AbstractErrors.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/aot/AbstractAotProcessor.java
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* /spring-context-6-1-19-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
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* /spring-context-6-1-19-sources-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
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* /spring-context-6-1-19-sources-
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jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
* /spring-context-6-1-19-sources-jar/org/springframework/scheduling/concurrent/ExecutorLifecycleDelegate.java
* /spring-context-6-1-19-sources-jar/org/springframework/context/event/GenericApplicationListenerDelegate.java
* /spring-context-6-1-19-sources-
jar/org/springframework/scheduling/annotation/ScheduledAnnotationReactiveSupport.java

1.410 apm-dubbo-plugin 1.52.2

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1.411 netty-handler-proxy 4.1.126.Final

1.411.1 Available under license :

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.handler-proxy
Built-By: root
Bnd-LastModified: 1756905992047
Specification-Title: Netty/Handler/Proxy
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.net
ty.handler.codec.http;version="[4.1,5)",io.netty.handler.codec.socksx
.v4;version="[4.1,5)",io.netty.handler.codec.socksx.v5;version="[4.1,
5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version=
"[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.inte
rnal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.ec
lipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jett
y.alpn;version="[1,2)";resolution:=optional,org.bouncycastle.jcajce.p
rovider;version="[1.0,2)";resolution:=optional
Require-Capability:

osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.handler.proxy;uses:="io.netty.channel,io.nett
y.handler.codec.http,io.netty.util.concurrent";version="4.1.126"
Bundle-Name: Netty/Handler/Proxy
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Handler/Proxy
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.handler.proxy
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-handler-proxy/

Found in path(s):
* /netty-handler-proxy-4-1-126-final-jar/META-INF/MANIFEST.MF
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/opt/cola/permits/2614416992_1760733873.3471158/0/netty-handler-proxy-4-1-126-final-jar/META-
INF/maven/io.netty/netty-handler-proxy/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*

1.412 apm-es-restclient-plugin-7_x 1.52.2

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1.414 log4j-ecs-layout 1.6.0

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1.415 jakarta-validation-api 3.1.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin 5.1.9
Build-Jdk-Spec: 11
Bundle-Description: Jakarta Validation API
Bundle-DocURL: https://www.eclipse.org
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jakarta Validation API
Bundle-SymbolicName: jakarta.validation.jakarta.validation-api
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 3.1.0
Export-Package: jakarta.validation;version="3.1.0";uses:="jakarta.valida
tion.bootstrap,jakarta.validation.executable,jakarta.validation.metadat
a,jakarta.validation.spi,jakarta.validation.valueextraction",jakarta.va
lidation.bootstrap;version="3.1.0";uses:="jakarta.validation",jakarta.v
alidation.constraints;version="3.1.0";uses:="jakarta.validation",jakart
a.validation.constraintvalidation;version="3.1.0",jakarta.validation.ex
ecutable;version="3.1.0";uses:="jakarta.validation",jakarta.validation.
groups;version="3.1.0",jakarta.validation.metadata;version="3.1.0";uses
:="jakarta.validation",jakarta.validation.spi;version="3.1.0";uses:="ja
karta.validation,jakarta.validation.valueextraction",jakarta.validation
.valueextraction;version="3.1.0";uses:="jakarta.validation"
Import-Package: jakarta.validation;version="[3.1,4)",jakarta.validation.
bootstrap;version="[3.1,4)",jakarta.validation.executable;version="[3.1
,4)",jakarta.validation.metadata;version="[3.1,4)",jakarta.validation.s
pi;version="[3.1,4)",jakarta.validation.valueextraction;version="[3.1,4

)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
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 -->
<![CDATA[
Comments to: bean-validation-dev@eclipse.org.
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* /jakarta-validation-api-3-1-0-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.416 apm-es-restclient-plugin-6_4 1.52.2

1.416.1 Available under license :

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(https://github.com/haraldk/TwelveMonkeys/)

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1.422 log4j-over-slf4j 2.0.16

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1.423 commons-lang3 3.7

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1.424 tika-parser-xml-module 3.2.2

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1.426 abego-treelayout-core 1.0.3

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1.427 super-csv 2.4.0

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1.430 jsr305 2.0.3

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1.431 tika-parser-html-module 3.2.2

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* /gson-2-8-9-sources-2-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonScope.java
* /gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonToken.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/LinkedHashTreeMap.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/LinkedTreeMap.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/ToNumberStrategy.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
*
 /gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/JsonStreamParser.java
* /gson-2-8-9-sources-2-jar/com/google/gson/LongSerializationPolicy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonParser.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/JsonElement.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java
* /gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingStrategy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/SerializedName.java
*
 /gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializationContext.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/Excluder.java
* /gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingPolicy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/$Gson$Preconditions.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializationContext.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonParseException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/ObjectConstructor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/Gson.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonIOException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/reflect/TypeToken.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializer.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Expose.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/Primitives.java
* /gson-2-8-9-sources-2-jar/com/google/gson/GsonBuilder.java
*
 /gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializer.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Since.java
* /gson-2-8-9-sources-2-jar/com/google/gson/JsonPrimitive.java
* /gson-2-8-9-sources-2-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Until.java
* /gson-2-8-9-sources-2-jar/com/google/gson/InstanceCreator.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
*
 /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapters.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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1.434 apm-vertx-common 1.52.2

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1.437 jopt-simple 5.0.2

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* /jopt-simple-5-0-2-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/ValueConverter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/ValueConversionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/IllegalOptionSpecificationException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/UnconfiguredOptionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/AbstractOptionSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpecBuilder.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionParserState.java
*
 /jopt-simple-5-0-2-sources-jar/joptsimple/internal/OptionNameMap.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/HelpFormatter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionalArgumentOptionSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/ReflectionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionParser.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Strings.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/ArgumentAcceptingOptionSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/MissingRequiredOptionsException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/SimpleOptionNameMap.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/util/DateConverter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/BuiltinHelpFormatter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Row.java
*
 /jopt-simple-5-0-2-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Rows.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Columns.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/util/InetAddressConverter.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpecTokenizer.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/NoArgumentOptionSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/NonOptionArgumentSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/ArgumentList.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionArgumentConversionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/util/KeyValuePair.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/util/RegexMatcher.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Classes.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Reflection.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionDescriptor.java
*
 /jopt-simple-5-0-2-sources-jar/joptsimple/UnrecognizedOptionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/AlternativeLongOptionSpec.java

* /jopt-simple-5-0-2-sources-jar/joptsimple/UnavailableOptionException.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/internal/Messages.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/RequiredArgumentOptionSpec.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/ParserRules.java
* /jopt-simple-5-0-2-sources-jar/joptsimple/OptionSet.java
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1.438 reactive-streams-tck 1.0.4

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* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/SymbolTable.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/ValueFactory.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/util/IonTextUtils.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonSymbol.java
*
 /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonException.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonCatalog.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonClob.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonString.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonLoader.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonBlob.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonSystem.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/IonIteratorImpl.java
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* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonText.java
*
 /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonDatagram.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/LocalSymbolTable.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonList.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/util/package-info.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/system/package-info.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/package-info.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonInt.java

* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonNull.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/UnsupportedIonVersionException.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/PrivateIonConstants.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonSequence.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonSexp.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonTimestamp.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/PrivateIonTextAppender.java
*
 /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonFloat.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/IonBool.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/UnexpectedEofException.java
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* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/lite/ReverseBinaryEncoder.java
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* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/BlockAllocatorProviders.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/WriteBuffer.java
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 /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/IonManagedBinaryWriter.java
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* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/BlockAllocator.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/BlockAllocatorProvider.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/Block.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/bin/PrivateIonManagedBinaryWriterBuilder.java
* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/PrivateByteTransferSink.java
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* /ion-java-1-2-0-sources-1-jar/software/amazon/ion/impl/PrivateLocalSymbolTableFactory.java
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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/servlet-api
* https://github.com/eclipse/jetty.toolchain

Third-party Content

Jakarta

The following artifacts are EPL 2.0 + GPLv2 with classpath exception.
https://projects.eclipse.org/projects/ee4j.servlet

* jakarta.servlet:jakarta.servlet-api

GlassFish

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

Oracle

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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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

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,

analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
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,
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See http://members.unine.ch/jacques.savoy/clef/index.html.

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German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
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1.451 oauth2-oidc-sdk 11.22.2

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Found in path(s):
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/nativesso/DeviceSecret.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/JWTAudienceCheck.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/nativesso/package-info.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/nativesso/DeviceSSOScopeValue.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/nativesso/DeviceSecretToken.java
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Found in path(s):
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/EntityIDConstraint.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/ResolveClaimsVerifier.java
* /oauth2-oidc-sdk-11-22-2-sources-

jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ConfigurationType.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSetRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainResolver.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/rp/statement/SoftwareStatementProcessor.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationFactory.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSuccessResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingErrorResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityRole.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatement.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/OIDCClaimsRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityStatementRetriever.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/DefaultDPoPProofFactory.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/AuthRequestID.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/WellKnownPathComposeStrategy.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/ResolveStatement.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityMetadataValidator.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/request/VerifiedClaimsSetRequest.java
*
/oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/ExactMatchEntityIDConstraint.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChain.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIError.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementErrorResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementSuccessResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustMarkStatusRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainRetriever.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/TrustChainConstraints.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/DPoPProofFactory.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSetRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/ResolveResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/package-info.java

* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/op/EndpointName.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsVerifier.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainSet.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/ResolveException.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/rp/statement/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustMarkStatusSuccessResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationCombinationValidator.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidEntityMetadataException.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultPolicyOperationCombinationValidator.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultTrustChainRetriever.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementRequest.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperationApplication.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/DPoPUtils.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/ClientRegistrationType.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustMarkStatusResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/ResolveRequest.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicy.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicyEntry.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultEntityStatementRetriever.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/ResolveErrorResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-

jar/com/nimbusds/openid/connect/sdk/rp/statement/InvalidSoftwareStatementException.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/registration/ExplicitClientRegistrationRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/ResolveSuccessResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/SubtreeEntityIDConstraint.java
*
/oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityType.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustMarkStatusErrorResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIRequest.java
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*/
/**
  * Confidential. Clients capable of maintaining the confidentiality of
  * their credentials (e.g., client implemented on a secure server with
  * restricted access to the client credentials), or capable of secure
  * client authentication using other means.
  */
/**
  * Public. Clients
 incapable of maintaining the confidentiality of their
  * credentials (e.g., clients executing on the device used by the
  * resource owner, such as an installed native application or a web
  * browser-based application), and incapable of secure client
  * authentication via any other means.
  */
```

Found in path(s):
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientType.java
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Found in path(s):
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*
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* specific language governing permissions and limitations under the License.
*/
/**
* Token revocation request. Used to revoke an issued access token, refresh
* token or device secret.
*
* <p>Example token revocation request for a confidential client:
*
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
 * Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW
*
* token=45ghiukldjahdnhzdauz&amp;token_type_hint=refresh_token
* </pre>
*
* <p>Example token revocation request for a public client:
*
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
*
* token=45ghiukldjahdnhzdauz&amp;token_type_hint=refresh_token&amp;client_id=123456
* </pre>
*
* <p>Related specifications:
*
* <ul>
*     <li>OAuth 2.0 Token Revocation (RFC 7009)
* </ul>
*/
/**
  * Creates a new token revocation request for a confidential client.
  *
  * @param endpoint   The URI of the token revocation endpoint. May be
```

```
 *                {@code null} if the {@link #toHTTPRequest} method
 *                is not going to be used.
 * @param clientAuth The client authentication. Must not be
 *                {@code null}.
 * @param token      The access token, refresh token or device secret
 *                to revoke. Must not be {@code
null}.
 */
// confidential client
```

Found in path(s):
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/TokenRevocationRequest.java
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* specific language governing permissions and limitations under the License.
*/
/**
* Client information. Encapsulates the registration and metadata details of
* an OAuth 2.0 client:
*
* <ul>
*     <li>The client identifier.
*     <li>The client metadata.
*     <li>The optional client secret for a confidential client.
*     <li>The optional registration URI
 and access token if dynamic client
*         registration is permitted.
* </ul>
*
* <p>Related specifications:
*
* <ul>
*     <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591)
*     <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC 7592)
```

*
*/
// The client must be unambiguously public, else it is marked as confidential

Found in path(s):
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java
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Found in path(s):
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/op/ReadOnlyOIDCProviderMetadata.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/DocumentIssuer.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/token/AccessTokenUtils.java
*
 /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Jurisdiction.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/Procedure.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/Attachment.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/utils/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Occupation.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DefaultDPoPSingleUseChecker.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAPushCallback.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/JWKThumbprintConfirmation.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAPingCallback.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAErrorDelivery.java
*
 /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/request/VerificationSpec.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/rar/Location.java
* /oauth2-oidc-sdk-11-22-2-sources-

jar/com/nimbusds/openid/connect/sdk/op/ReadOnlyOIDCProviderEndpointMetadata.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/ListUtils.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/HashAlgorithm.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/Digest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPIssuer.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/SerialNumber.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/singleuse/AlreadyUsedException.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPCommonVerifier.java
*
/oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/CommonOriginatorAttributes.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/StandardOperations.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/token/TokenSchemeError.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAHintType.java
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* /oauth2-oidc-sdk-11-22-2-sources-
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPKeySelector.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/singleuse/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBARequestAcknowledgement.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPTokenRequestVerifier.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/rar/DataType.java
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*/
/**
  * Creates a new authenticated pushed authorisation request for a
  * confidential client.
  *
  * @param endpoint   The URI of the PAR endpoint. May be
  *   {@code null} if the {@link #toHTTPRequest}
  *   method is not going to be used.
  * @param
 clientAuth   The client authentication. Must not be
  *   {@code null}.
  * @param authzRequest The authorisation request. Must not be
  *   {@code null}.
  */

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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerEndpointMetadata.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/JWTAuthentication.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/validators/InvalidHashException.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/id/package-info.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientReadRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2Utils.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/token/DPoPTokenError.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/Gender.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityVerification.java
* /oauth2-oidc-sdk-11-22-2-sources-
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/PrivateKeyJWT.java
* /oauth2-oidc-sdk-11-22-2-sources-
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/StringUtils.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationCodeGrant.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/date/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/jose/package-info.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/CommonClaimsSet.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/JWTBearerGrant.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/Hint.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/token/TokenEncoding.java

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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityTrustFramework.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/Response.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/AuthorizedParty.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/AbstractRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidence.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ResourceOwnerPasswordCredentialsGrant.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/pkce/CodeVerifier.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/Display.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/http/HTTPMessage.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTSuccessResponse.java

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 /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Attestation.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/validators/AbstractJWTValidator.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationGrant.java
* /oauth2-oidc-sdk-11-22-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationSuccessResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestDetector.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetailsVerifier.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/TokenErrorResponse.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationResponse.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionValidator.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/id/Audience.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/OrderedJSONObject.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/util/JSONObjectUtils.java
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* /oauth2-oidc-sdk-11-22-2-sources-
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* /oauth2-oidc-sdk-11-22-2-sources-
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientInformationResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/id/JWTID.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/TLSClientAuthentication.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/X509CertificateConfirmation.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionFactory.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/AccessTokenResponse.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTErrorResponse.java

* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationCode.java
*
 /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerConfigurationRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionResponse.java
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*/
/**
* OpenID Connect client information. Encapsulates the registration and
* metadata details of an OpenID Connect client:
*
*
*   The client identifier.
*   The client OpenID Connect metadata.
*   The optional client secret for a confidential client.
*
  The optional registration URI and access token if dynamic client
*   registration is permitted.
*
*
* <p>Related specifications:
*
*
*   OpenID Connect Dynamic Client Registration 1.0
*   OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591)
*   OAuth 2.0 Dynamic Client Registration Management Protocol (RFC 7592)
*
*/

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*/
/**
  * Creates a new request object POST request where the parameters are
  * submitted as plain JSON object, and the client authenticates by
  * means of mutual TLS. TLS also ensures the integrity and
  * confidentiality of the request parameters. This method is not
  * standard.
  *
  *
 @param endpoint          The URI of the request object endpoint. May
  *                       be {@code null} if the
  *                       {@link #toHTTPRequest} method is not going
  *                       to be used.
  * @param tlsClientAuth     The mutual TLS client authentication. Must
  *                       not be {@code null}.
  * @param requestJSONObject The request parameters as plain JSON
  *                       object. Must not be {@code null}.
  */
```

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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/ExpendedJTIChecker.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/http/ReadOnlyHTTPResponse.java
*
 /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/rar/package-info.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/client/RedirectURIValidator.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/ParameterRequirement.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/http/ReadOnlyHTTPRequest.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/GrantType.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/http/ReadOnlyHTTPMessage.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/rar/AuthorizationType.java
* /oauth2-oidc-sdk-11-22-2-sources-jar/com/nimbusds/oauth2/sdk/http/HTTPRequestSender.java
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* /oauth2-oidc-sdk-11-22-2-sources-jar/META-INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml

1.452 identity-spi 2.31.78

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JLine v3.26.1

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jQuery UI v1.13.2

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---
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Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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1.463 jul-to-slf4j 2.0.17

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1.464 antlr 4.13.1

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```
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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
```

```
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
```

```
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }
```

```
public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST
options,
                        GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t,
 GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }
```

```
protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST
 tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }
```

```
protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST
 tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }
```

```
protected void enterLexerAtom(GrammarAST tree) { }
protected
 void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected
 void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) {
 }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
```

```
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :
   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
    {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
```

```
    }
  ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
  :  ID
  |  STRING_LITERAL
  |  INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :  ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
   :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |  id=ID      {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
```

```
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :   ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;
```

```
mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^(
 MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
   opts=optionsSpec*
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
```

```
        ret=ruleReturns?
       thr=throwsSpec?
       loc=locals?
       ( opts=optionsSpec
      |   a=ruleAction {actions.add($a.start);}
      )*
       {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
           $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
           $thr.start, $opts.start,
           $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
           actions, (GrammarAST)input.LT(1));}
       ruleBlock exceptionGroup
       {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
       )
    ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
    : exceptionHandler* finallyClause?
    ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init
 {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
```

```
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
```

```
  | PROTECTED
  | FRAGMENT
  ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
     lexerOuterAlternative
    )+
   )
  ;

ruleBlock
@init
 {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
     outerAlternative
    )+
   )
  ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
```

```
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after
 {
 exitLexerElement($start);
}
 : lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
```

```
 |  SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |  ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |  ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
   :   terminal
   |  ^(NOT blockSet)
   |  blockSet
   |  ^(WILDCARD elementOptions)
   |  WILDCARD
   | LEXER_CHAR_SET
   |  range
   |  ruleref
   ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |  ^(ACTION elementOptions)
 |  SEMPRED
 |  ^(SEMPRED elementOptions)
 ;

alternative
@init {
```

```
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT
 elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
  ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED     {sempredInAlt((PredAST)$SEMPRED);}
```

```
|   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
|   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^(NOT blockSet)
| ^(NOT block)
;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT
 blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 |  block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
```

```
 : ^(blockSuffix lexerBlock)
 |  lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init
 {
 enterBlockSet($start);
}
@after {
```

```
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)    {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                  {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                    {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
   ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
     }
   ;
```

```
range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
  : ^(RANGE STRING_LITERAL STRING_LITERAL)
  ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
  :  ^(STRING_LITERAL elementOptions)
        {stringRef((TerminalAST)$STRING_LITERAL);}
  | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
  | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
  | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
  ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
  : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
  ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
  : ID        {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN
 ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
No license file was found, but licenses were detected in source scan.

/*
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
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>:<column>:"

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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

```
/*
* [The "BSD license"]
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
```

```
 than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." 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">

del <file.parserName>
>>
```

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

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

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  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> ]

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

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

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

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

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



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
```

```
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

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

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
```

```
def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
     <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
     <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
     return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
     return <actions.(index)>
<endif> }; separator="\n">

>>

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

<ruleCtx>

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

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
```

```
  except RecognitionException as re:
      localctx.exception = re
      self._errHandler.reportError(self,
 re)
      self._errHandler.recover(self, re)
  <endif>
  finally:
      <finallyAction>
      self.exitRule()
  return localctx

>>

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

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

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _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(tokens=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(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

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

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
```

```
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

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

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
```

```
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) != 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>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
>>

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>

```
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <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) ::= <<
except <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.escapedName>"
```

```
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

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

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

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

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(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.escapedName>(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.escapedName>(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.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

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

```
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
      super().__init__(parent, invokingState)
      self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
   def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
      super().__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">
```

```
>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
     return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <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.escapedName>"

/** 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, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>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>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
```

```
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO
else:
  from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<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) ]

<if(lexer.escapedChannels)>
  <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

   channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  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, output:TextIO = sys.stdout):
     super().__init__(input, output)
     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)
```

```
 ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** 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) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2014 Eric Vergnaud
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED
 WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** 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.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // 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)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

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

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

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

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

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

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

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );
```

```
const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName>";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input);
     this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
     this.ruleNames = <parser.name>.ruleNames;
     this.literalNames = <parser.name>.literalNames;
     this.symbolicNames = <parser.name>.symbolicNames;
     <namedActions.members>
  }

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

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

 <funcs; separator="\n">

}

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

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

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
```

```
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

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

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

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

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


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
```

```
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

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


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

```
    throw re;
   }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
}

>>

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

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

>>
```

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

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

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

```
}
<!else if ( !(<followExpr>) ) <error>!>
>>

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

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

// LL(*) stuff

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

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
```

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

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

>>

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

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

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

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

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

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 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>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

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

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

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
```

```
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

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

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

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

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip();"
```

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

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

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

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

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

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

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"
```

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

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

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

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
  return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = 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.escapedName>() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
  return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>
```

```
ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.escapedName> = 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,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
     if(parent===undefined) {
        parent = null;
     }
     if(invokingState===undefined || invokingState===null) {
        invokingState = -1;
     }
     super(parent, invokingState);
     this.parser = parser;
     this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
  }
```

```
 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {

     super(parser);
      <attrs:{a | <a>;}; separator="\n">
      super.copyFrom(ctx);
  }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

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

>>

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

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
```

```
  if ( visitor instanceof <parser.grammarName>Visitor ) {
     return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
     return visitor.visitChildren(this);
  }
}

>>

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

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

/** 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, isListLabel) ::= <<
localctx = new <ctxName>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>);
>>

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)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

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

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {

   static grammarFileName = "<lexer.grammarFileName>";
   static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

   constructor(input) {
```

```
    super(input)
    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
    <namedActions.members>
  }
}

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

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

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


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** 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) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
```

```
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
```

```
 int numAlts;  // how many alts for this rule total?

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

@rulecatch { }

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

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
```

```
  | PROTECTED
  ;

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

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

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

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

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

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

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

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

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

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)

  ;

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

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

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
```

;

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

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

block
: ^(BLOCK ACTION? alternative+)
;

alternative
: ^(ALT elementOptions? element+)
;

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

Found in path(s):
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
```

```
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;

LINE_COMMENT
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
```

```
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ActionSplitter.g
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```

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/GraphicsSupport.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ANTLRParser.java
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*/

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

```
}

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

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

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

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

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

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
```

```
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

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

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

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

| ^(ASSIGN ID v=INT)
;

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* /antlr4-4-13-1-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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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*/

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
```

```
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

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

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

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
```

```
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

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

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

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
```

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

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

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

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
```

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

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

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
```

```
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<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] <file.parserName>.<lname; format="cap">Context
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

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

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

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

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
```

```
<Parser_(ctor="parser_ctor", ...)>
>>

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

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

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

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

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <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 <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

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

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

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

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

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

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

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

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

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

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

```
 return _localctx;
}
>>

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

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

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

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

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

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

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

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

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

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

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

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

// LL(*) stuff

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

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
```

```
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

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

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

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

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

TestSetInline(s) ::= <<
```

```
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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.tokens contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

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

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

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

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

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

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

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
```

```
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
```

```
<rhsChunks>;%>

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

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

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

```
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
<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.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
| this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>
```

```
ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
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) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
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> <d.escapedName><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><x.escapedName>"

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

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

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

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


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

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

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public const int
  <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public const int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static string[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 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 <lexer.name>(ICharStream input)
 : this(input, Console.Out, Console.Error) { }

 public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
 :
 base(input, output, errorOutput)
 {
  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[] ChannelNames { get { return channelNames; } }

 public override string[] ModeNames { get { return modeNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <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 int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

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
]
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
No license file was found, but licenses were detected in source scan.

```
/*
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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
```

```
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated 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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modification, are permitted provided that the following conditions
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```

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}

@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
 boolean withinOptionsBlock = false;
 while (i >= 0 && i < n) {
  int ttype = tokens.get(i).getType();
  if (withinOptionsBlock) {
   // Ignore rule options content
   if (ttype == OPTIONS) {
    withinOptionsBlock = false;

```
    }
   }
   else {
    if (ttype == RBRACE) {
     withinOptionsBlock = true;
    }
    else 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 descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
        // Single line comment, possibly with embedded src/line directives
        // in a similar style to the C pre-processor, allowing generated
```

```
        // code to refer the programmer back to the original source code
        // in case of error.
        //

      '/'
        (
          (' $ANTLR')=> ' $ANTLR' SRC
        | ~NLCHARS*
        )

      | // Multi-line comment, which may be a documentation comment
        // if it starts /** (note that we protect against accidentally
        // recognizing a comment /**/ as a documentation comment
        //
        '*' (
            { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
          | { true }?=>  // Required to cover all alts with predicates
          )

          // Should we support embedded multiline comments here?
          //
          (
            // Pick out end of multiline comment and exit the loop
            // if we find it.
            //
            {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

              // Anything else other than the non-greedy match of
              // the comment close sequence
              //
              .

          )*
        (
            // Look for the comment terminator, but if it is accidentally
            // unterminated, then we will hit EOF, which will trigger the
            // epsilon alt and hence we can issue an error message relative
            // to the start of the unterminated multi-line comment
            //
            '*/'

          | // Unterminated comment!
            //
            {
              // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
            }
        )
```

```
      | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
    )
    {
      // We do not wish to pass the comments in to the parser. If you are

      // writing a formatter then you will want to preserve the comments off
      // channel, but could just skip and save token space if not.
      //
      $channel=COMMENTS_CHANNEL;
    }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
```

```
//
fragment
ARG_ACTION
 : '['
       (

         ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
     )*

     ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION ( '?' {$type = SEMPRED;} )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited
 by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {
```

```
// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we believe to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error
and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
      //
      NESTED_ACTION

      | // What appears to be a literal
        //
        ACTION_CHAR_LITERAL

      | // We have assumed that the target language has C/Java
        // type comments.
        //
        COMMENT

      | // What appears to be a literal
        //
        ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
      //
      ACTION_ESC
```

```
    | // Some other single character that is not
      // handled above
      //
      ~('\\'|''|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
    {
       // TODO: Report imbalanced {}
       System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing
 a }");
    }
)
 ;


// Keywords
// --------
// Keywords 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'             ;
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    : '?'                     ;
STAR        : '*'                   ;
PLUS        : '+'                   ;
PLUS_ASSIGN  : '+='                   ;
OR          : '|'                   ;
DOLLAR      : '$'                     ;
DOT      : '.'                  ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'                  ;
AT          : '@'                   ;
POUND       : '#'                   ;
NOT         : '~'                   ;
RBRACE      : '}'                     ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
```

```
    {
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
    }
   ;

fragment
NameChar    :   NameStartChar

    |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ------------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do
 not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
```

```
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences
 so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
```

```
        // TODO: Add target specific code to change the source file name and current line number
        //
    }
  ;

// ----------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
          {
          Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
          t.setLine(state.tokenStartLine);
          t.setText(state.text);
          t.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

        | // A
 Swift/Hack style Unicode escape sequence
          UNICODE_EXTENDED_ESC
```

```
      | // An illegal escape sequence
        ~('b'|'t'|'n'|'f'|'r'|'\"'|'\\'|'u') // \x for any invalid x (make sure to match char here)
        {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
        }
      )
  ;

fragment
UNICODE_ESC
@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get
 4. We cannot
      // use an infinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
   (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
           (
              HEX_DIGIT  { hCount++; }
              (
                 // Four valid hex digits, we are good
                 //
                 HEX_DIGIT { hCount++; }

               | // Three valid digits
              )
```

```
            | // Two valid digits
           )

          | // One valid digit
       )
        )
       | // No valid hex digits at all
   )

   // Now check the digit count and issue an error if we need to
   //
   {
    if (hCount < 4) {
   Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
   String lastChar = input.substring(badRange.b,
badRange.b);
   if ( lastChar.codePointAt(0)=='\'' ) {
    badRange.b--;
   }
   String bad = input.substring(badRange.a, badRange.b);
   Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
   t.setLine(input.getLine());
   t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
   grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
    }
   }
  ;

fragment
UNICODE_EXTENDED_ESC
  :   'u{' // Leadin for unicode extended escape sequence

      HEX_DIGIT+ // One or more hexadecimal digits

      '}' // Leadout for unicode extended escape sequence

      // Now check the digit count and issue an error if we need to
      {
         int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
         if (numDigits > 6) {
            Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
             t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
   }
```

```
      }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
     ' '
     | '\t'
     | '\r'
     | '\n'
     | '\f'
    )+
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
   : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
```

```
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :  '\uFEFF' {skip();}
  ;

// ------------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the 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();
    }
  ;

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*/

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

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

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

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

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

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

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
     <! rest(transition) tests for decision states: these nodes have a non-empty
```

```
 set of transitions after the first one. !>
      <if(rest(transitions))>
         {
         <! Label on the left side of the record node. !>
         <label>
         |
         <! Named ports in order on right side of record node, no display text. !>
         {<transitions:{t|\<p<i0>>}; separator="|">}}
      <else>
         <label>
      <endif>
      "
   <if(rest(transitions))>
      , shape=record, fixedsize=false
   <else>
      , shape=circle, fixedsize=true, width=.55
   <endif>
   , peripheries=1];
%>

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

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*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
```

```
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

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

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

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

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

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

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

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

lexerCommandExpr
 : ID
 | INT
 ;
```

```
element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

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

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
 ;

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

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

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
```

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

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

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

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

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

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

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ModelElement.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Loop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LabeledOp.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/ActionAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LabelType.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/RuleCollector.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/Trees.java

* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
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 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/Tool.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TestRig.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ParserFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/ActionTranslator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/AttributeResolver.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Action.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreeViewer.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/CharSupport.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/AltBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/DOTGenerator.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Wildcard.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
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/antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/Target.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ANTLRMessage.java

* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/TestSetInline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/Graph.java
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 /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RangeAST.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
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 /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/AttributeDict.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/GoTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/dbg.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
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 /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarToken.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/CodeGenPipeline.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/OutputModelWalker.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/SwiftTarget.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/AltAST.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
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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] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
```

```
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions?
 EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
```

```
 {
 $omos = $block.omos;
 }
| ( ^(op=CLOSURE
b=block[null,null])
 | ^(op=POSITIVE_CLOSURE b=block[null,null])
 )
 {
 List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
 SrcOp blk = $b.omos.get(0);
 CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
 alt.addOp(blk);
 alts.add(alt);
 SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
     hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
     $omos = DefaultOutputModelFactory.list(loop);
 }
|  block[null, null]     {$omos = $block.omos;}
  ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
  : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
  ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
```

```
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos =
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

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

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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*/

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ANTLRLexer.java
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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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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```

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*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

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>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

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

import Antlr4
```

```
/**
* 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.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
```

```
 */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

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

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

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

```
/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
 |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return 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) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
 i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
        return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()
```

```
<if(parser.tokens)>
<accessLevelNotOpen(parser)>
enum Tokens: Int {
 case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
<endif>

<accessLevelNotOpen(parser)>
<if(parser.rules)>
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
<endif>

<accessLevelNotOpen(parser)>
static let ruleNames: [String] = [
 <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

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

override <accessLevelOpenOK(parser)>
func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

override <accessLevelOpenOK(parser)>
func getRuleNames() -> [String] { return <parser.name>.ruleNames
}

override <accessLevelOpenOK(parser)>
func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

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

<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
 switch (ruleIndex) {
 <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
    default: return true
 }
 <!return true;!>
}
```

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

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
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>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
```

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

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
  return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
```

```
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {

   <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
 var _alt:Int
<endif>
  <code>
 <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

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

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

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

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

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=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(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

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

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
```

```
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

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

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

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
```

```
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<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.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
    }()
```

```
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
  throw 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.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"
```

```
NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

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

TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
```

```
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
```

```
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <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.escapedName>"

/** 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>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
```

```
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>

 <if(lexer.escapedChannels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.escapedModeNames))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static
 let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 ]
```

```
<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

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

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
 return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func
getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }
```

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

 <accessLevelNotOpen(lexer)>
 static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** 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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
```

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* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
separator="\n">
>>

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/depend.stg
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
```

```
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @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>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

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

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
```

```
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
 /**
  *
 {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
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); \}}; 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) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
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>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

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

 @Override
```

```
 public String getGrammarFileName() { return "<parser.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

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

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

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);
```

```
/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i]
 = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
```

```
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
 true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>
```

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

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

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", "">) throws RecognitionException {
```

```
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(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.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

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

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

```
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble;
 separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

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

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

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

```
 <iteration>
}
>>

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

// LL(*) stuff

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

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
```

```
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

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

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

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
```

```
<bits.calculated>L) != 0)
%>

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

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

InvokeRule(r, argExprsChunks)
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
>>

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
```

```
}
>>

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

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

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

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

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

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
```

```
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(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,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> 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.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
```

```
 super(parent, invokingState);
 <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<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.escapedName><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.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

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

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

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

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue", "this-escape"})
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();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public static final int
  <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public static final int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static
 String[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };
```

```
private static String[] makeRuleNames() {
 return new String[] {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };
}
public static final String[] ruleNames = makeRuleNames();

<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[] getChannelNames() { return channelNames; }

@Override
public
String[] getModeNames() { return modeNames; }

@Override
public ATN getATN() { return _ATN; }

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

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
```

```
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

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

codeFileExtension() ::= ".java"
```

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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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*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
```

```
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

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

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
```

```
 $context): void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

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

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
```

```
/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
```

```
{
  return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

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

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
  <if(parser.tokens)>
  public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
  <endif>

  <if(parser.rules)>
  public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
```

```
<endif>

/**
 * @var array\<string>
 */
public const RULE_NAMES = [
 <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

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

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>


<parser:(ctor)()>

private static function initialize(): void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}
```

```
 public function getRuleNames(): array
 {
  return self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
     {
         static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
     }
<if(funcs)>

 <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

 public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
 {
  switch ($ruleIndex) {
  <parser.sempredFuncs.values:{f|
 case <f.ruleIndex>:
  return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

   default:
    return
true;
   }
 }

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

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
```

```
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

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

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

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

```
public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

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

parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

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

```
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
{
 switch ($predicateIndex) {
 <actions:{index|
  case <index>:
     return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
  $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally {

     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
```

```
le) ::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
```

```
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

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

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
```

```
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
```

```
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->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 !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

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

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
```

```
 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== 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.tokens)))><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
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

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

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

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
```

```
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<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->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
  }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
  throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
```

```
<p.msg><endif>);
}
>>

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><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_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <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 ? $this->input->getTextByTokens(<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) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r):= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
```

```
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

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

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

  return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
```

```
      ::= <<
public function <r.name>(): ?<r.ctxName>
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

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) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
```

```
 parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

 <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
    return <parser.name>::RULE_<struct.derivedFromName>;
  }
<if(getters)>

  <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);

 <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
    parent::__construct($context);

    $this->copyFrom($context);
  }
<if(getters)>

  <getters:{g | <g>}; separator="\n\n">
```

```
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

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

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
  }

 return $visitor->visitChildren($this);
}
>>

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

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

// 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, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
```

```
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
```

```
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];
```

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

 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
<if(namedActions.members)>

 <namedActions.members>
<endif>

 public function __construct(CharStream $input)
 {
  parent::__construct($input);

  self::initialize();

  $this->interp
 = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
  }

  RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

  $decisionToDFA = [];
  for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
   $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
  }

  self::$atn = $atn;
  self::$decisionToDFA = $decisionToDFA;
  self::$sharedContextCache = new PredictionContextCache();
 }

 public static function vocabulary(): Vocabulary
 {
  static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
 }
```

```
 public function getGrammarFileName(): string
 {
  return '<lexer.grammarFileName>';
 }

 public function getRuleNames(): array
 {
  return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 /**
  * @return array\<string>
  */
 public function getChannelNames(): array
 {
  return self::CHANNEL_NAMES;
 }

 /**
  * @return array\<string>
  */
 public function getModeNames(): array
 {
  return self::MODE_NAMES;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
 {
  return self::vocabulary();
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 }
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
```

[<model.serialized: {s | <s>}; separator=", ", wrap={<\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) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
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1.465 feign-core 8.15.1

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* /feign-core-8-15-1-sources-jar/feign/InvocationHandlerFactory.java

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* /feign-core-8-15-1-sources-jar/feign/RequestTemplate.java
* /feign-core-8-15-1-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /feign-core-8-15-1-sources-jar/feign/RetryableException.java
* /feign-core-8-15-1-sources-jar/feign/ReflectiveFeign.java
* /feign-core-8-15-1-sources-jar/feign/codec/ErrorDecoder.java
*
 /feign-core-8-15-1-sources-jar/feign/Logger.java
* /feign-core-8-15-1-sources-jar/feign/Request.java

* /feign-core-8-15-1-sources-jar/feign/codec/EncodeException.java
* /feign-core-8-15-1-sources-jar/feign/codec/StringDecoder.java
* /feign-core-8-15-1-sources-jar/feign/Retryer.java
* /feign-core-8-15-1-sources-jar/feign/codec/DecodeException.java
* /feign-core-8-15-1-sources-jar/feign/Util.java
* /feign-core-8-15-1-sources-jar/feign/auth/Base64.java
* /feign-core-8-15-1-sources-jar/feign/FeignException.java
* /feign-core-8-15-1-sources-jar/feign/Client.java
* /feign-core-8-15-1-sources-jar/feign/MethodMetadata.java
* /feign-core-8-15-1-sources-jar/feign/Response.java
* /feign-core-8-15-1-sources-jar/feign/Feign.java
* /feign-core-8-15-1-sources-jar/feign/RequestInterceptor.java
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* /feign-core-8-15-1-sources-jar/feign/QueryMap.java

1.466 junit-jupiter-engine 5.10.5

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1.467 apm-opentracing-plugin 1.52.2

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1.468 jctools-core 4.0.5

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* /jctools-core-4-0-5-6-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316

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*

/jctools-core-4-0-5-6-jar/META-INF/MANIFEST.MF

1.469 jakarta-transaction-api 2.0.1

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* /gson-2-12-1-sources-jar/com/google/gson/ToNumberPolicy.java
* /gson-2-12-1-sources-jar/com/google/gson/ToNumberStrategy.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/reflect/ReflectionHelper.java
* /gson-2-12-1-sources-jar/com/google/gson/stream/package-info.java
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* /gson-2-12-1-sources-jar/com/google/gson/ReflectionAccessFilter.java
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* /gson-2-12-1-sources-jar/com/google/gson/internal/LazilyParsedNumber.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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 /gson-2-12-1-sources-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
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* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
*
 /gson-2-12-1-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-12-1-sources-jar/com/google/gson/TypeAdapter.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-12-1-sources-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-12-1-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
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* /gson-2-12-1-sources-jar/com/google/gson/JsonIOException.java
* /gson-2-12-1-sources-jar/com/google/gson/JsonArray.java
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 /gson-2-12-1-sources-jar/com/google/gson/annotations/Until.java
* /gson-2-12-1-sources-jar/com/google/gson/JsonSerializer.java
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* /gson-2-12-1-sources-jar/com/google/gson/internal/ObjectConstructor.java
* /gson-2-12-1-sources-jar/com/google/gson/reflect/package-info.java
* /gson-2-12-1-sources-jar/com/google/gson/JsonDeserializationContext.java
* /gson-2-12-1-sources-jar/com/google/gson/FieldNamingPolicy.java
* /gson-2-12-1-sources-jar/com/google/gson/JsonDeserializer.java
* /gson-2-12-1-sources-jar/com/google/gson/JsonParseException.java
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* /gson-2-12-1-sources-jar/com/google/gson/ExclusionStrategy.java
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1.480 junit-jupiter 5.9.3

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/TakeLastQueueProducer.java

*
 /rxjava-1-1-2-sources-jar/rx/functions/Action5.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
* /rxjava-1-1-2-sources-jar/rx/subscriptions/MultipleAssignmentSubscription.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CachedObservable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnEach.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkip.java
* /rxjava-1-1-2-sources-jar/rx/plugins/RxJavaObservableExecutionHook.java
* /rxjava-1-1-2-sources-jar/rx/exceptions/OnErrorNotImplementedException.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDematerialize.java
* /rxjava-1-1-2-sources-jar/rx/Producer.java
* /rxjava-1-1-2-sources-jar/rx/functions/ActionN.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSequenceEqual.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java
*
 /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeLastTimed.java
* /rxjava-1-1-2-sources-jar/rx/functions/Func8.java
* /rxjava-1-1-2-sources-jar/rx/observables/SyncOnSubscribe.java
* /rxjava-1-1-2-sources-jar/rx/functions/Func4.java
* /rxjava-1-1-2-sources-jar/rx/package-info.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/BackpressureDrainManager.java
* /rxjava-1-1-2-sources-jar/rx/Subscription.java
* /rxjava-1-1-2-sources-jar/rx/schedulers/ImmediateScheduler.java
* /rxjava-1-1-2-sources-jar/rx/schedulers/TestScheduler.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/ScalarSynchronousObservable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTimeout.java
* /rxjava-1-1-2-sources-jar/rx/functions/Func9.java
* /rxjava-1-1-2-sources-jar/rx/functions/Action3.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeFromIterable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorObserveOn.java
*
 /rxjava-1-1-2-sources-jar/rx/subscriptions/BooleanSubscription.java
* /rxjava-1-1-2-sources-jar/rx/functions/FuncN.java
* /rxjava-1-1-2-sources-jar/rx/observables/ConnectableObservable.java
* /rxjava-1-1-2-sources-jar/rx/observers/TestObserver.java
* /rxjava-1-1-2-sources-jar/rx/exceptions/OnErrorThrowable.java
* /rxjava-1-1-2-sources-jar/rx/subscriptions/RefCountSubscription.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
* /rxjava-1-1-2-sources-jar/rx/observables/GroupedObservable.java
* /rxjava-1-1-2-sources-jar/rx/subjects/TestSubject.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/SubscriptionList.java
* /rxjava-1-1-2-sources-jar/rx/functions/Action1.java
* /rxjava-1-1-2-sources-jar/rx/subjects/BehaviorSubject.java
* /rxjava-1-1-2-sources-jar/rx/schedulers/Timestamped.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorAll.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/IndexedRingBuffer.java
*

/rxjava-1-1-2-sources-jar/rx/internal/schedulers/EventLoopsScheduler.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeUsing.java
* /rxjava-1-1-2-sources-jar/rx/exceptions/OnCompletedFailedException.java
* /rxjava-1-1-2-sources-jar/rx/exceptions/UnsubscribeFailedException.java
* /rxjava-1-1-2-sources-jar/rx/Completable.java
* /rxjava-1-1-2-sources-jar/rx/observers/Subscribers.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTake.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorThrottleFirst.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorAny.java
* /rxjava-1-1-2-sources-jar/rx/functions/Func7.java
* /rxjava-1-1-2-sources-jar/rx/exceptions/OnErrorFailedException.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorCast.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorReplay.java
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* /rxjava-1-1-2-sources-jar/rx/functions/Action9.java
*
/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSubscribeOn.java
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeJoin.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/BlockingOperatorLatest.java
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* /rxjava-1-1-2-sources-jar/rx/functions/Action4.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java
* /rxjava-1-1-2-sources-jar/rx/functions/Func2.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorScan.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMerge.java
*
/rxjava-1-1-2-sources-jar/rx/functions/Func1.java
* /rxjava-1-1-2-sources-jar/rx/functions/Action0.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeMerge.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTimestamp.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorZipIterable.java
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/BlockingOperatorNext.java
* /rxjava-1-1-2-sources-jar/rx/subjects/Subject.java
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorUnsubscribeOn.java
*

/rxjava-1-1-2-sources-jar/rx/subscriptions/Subscriptions.java
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* /rxjava-1-1-2-sources-jar/rx/schedulers/TimeInterval.java
* /rxjava-1-1-2-sources-jar/rx/schedulers/package-info.java
* /rxjava-1-1-2-sources-jar/rx/Observer.java
* /rxjava-1-1-2-sources-jar/rx/exceptions/Exceptions.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeFromArray.java
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeToObservableFuture.java
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* /rxjava-1-1-2-sources-jar/rx/exceptions/MissingBackpressureException.java
* /rxjava-1-1-2-sources-jar/rx/Subscriber.java
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*
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSingle.java
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* /rxjava-1-1-2-sources-jar/rx/functions/Action8.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTimeoutWithSelector.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorZip.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSerialize.java
* /rxjava-1-1-2-sources-jar/rx/observers/SerializedObserver.java
*

/rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeUntilPredicate.java
* /rxjava-1-1-2-sources-jar/rx/functions/Func6.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /rxjava-1-1-2-sources-jar/rx/functions/Action6.java
* /rxjava-1-1-2-sources-jar/rx/Scheduler.java
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* /rxjava-1-1-2-sources-jar/rx/internal/producers/QueuedProducer.java
* /rxjava-1-1-2-sources-jar/rx/internal/producers/ProducerObserverArbiter.java
* /rxjava-1-1-2-sources-jar/rx/internal/producers/SingleProducer.java
*
/rxjava-1-1-2-sources-jar/rx/internal/producers/QueuedValueProducer.java
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/**
* This plugin class provides 2 ways to customize {@link Scheduler} functionality
* 1.  You may redefine entire schedulers, if you so choose.  To do so, override
* the 3 methods that return Scheduler (io(), computation(), newThread()).
* 2.  You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler.  The
 system-
* supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
* modify Scheduler functionality without redefining Schedulers wholesale.
*
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
* <a
href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins</a>.
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```

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* /rxjava-1-1-2-sources-jar/rx/plugins/RxJavaSchedulersHook.java
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeCombineLatest.java
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core/src/main/java/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
*/

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* /rxjava-1-1-2-sources-jar/rx/internal/util/atomic/SpscLinkedAtomicQueue.java
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* /rxjava-1-1-2-sources-jar/rx/schedulers/ExecutorScheduler.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSwitch.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/atomic/SpscLinkedArrayQueue.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDelayWithSelector.java
*
 /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/RxThreadFactory.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDistinct.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /rxjava-1-1-2-sources-jar/rx/internal/schedulers/NewThreadWorker.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMapPair.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/FrontPadding.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithSize.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java
*
 /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorEagerConcatMap.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorTakeTimed.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /rxjava-1-1-2-sources-jar/rx/internal/schedulers/ScheduledAction.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithTime.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorPublish.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSampleWithTime.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithTime.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipTimed.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWithLatestFrom.java
*
 /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorOnBackpressureLatest.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorWindowWithObservable.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipUntil.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorBufferWithSize.java

* /rxjava-1-1-2-sources-jar/rx/internal/util/PlatformDependent.java
* /rxjava-1-1-2-sources-jar/rx/internal/util/SynchronizedQueue.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorMulticast.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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This package "rx.internal.operators" is for internal implementation details and can change at any time.

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In short, changes to public signatures of these classes will not be accounted for in the versioning
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* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorToMultimap.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnRequest.java
* /rxjava-1-1-2-sources-jar/rx/subscriptions/CompositeSubscription.java
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 /rxjava-1-1-2-sources-jar/rx/subjects/SubjectSubscriptionManager.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSkipLastTimed.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OnSubscribeSingle.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnSubscribe.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorSwitchIfEmpty.java
* /rxjava-1-1-2-sources-jar/rx/internal/operators/OperatorDoOnUnsubscribe.java
* /rxjava-1-1-2-sources-jar/rx/schedulers/CachedThreadScheduler.java
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1.492 grizzly-http-server 4.0.2

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1.493 httpcomponents-core 4.4.16

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1.494 jackson-module-afterburner 2.19.2

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1.495 slf4j-nop 2.0.17

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1.496 angus-activation 2.0.2

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1.497 httpcomponents-client 4.5.13

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1.499 jackson-datatype-jsr310 2.17.3

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/LogOutputStream.java
*
 /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stop/NopProcessStopper.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/InvalidExitValueException.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/MessageLogger.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/ProcessResult.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/slf4j/Slf4jOutputStream.java
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* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/CallerLoggerUtil.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stop/ProcessStopper.java
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* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/ProcessAttributes.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/slf4j/Slf4jStream.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/slf4j/Slf4jWarnOutputStream.java
*
 /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/ProcessOutput.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/listener/DestroyerListenerAdapter.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stop/DestroyProcessStopper.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/slf4j/Slf4jTraceOutputStream.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/slf4j/Slf4jDebugOutputStream.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/StartedProcess.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/MessageLoggers.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/ProcessExecutor.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/listener/ProcessListener.java
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```
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*
 /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/ExecuteStreamHandler.java
* /zt-exec-1-7-sources-1-jar/org/zeroturnaround/exec/stream/InputStreamPumper.java
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1.503 antlr 4.6

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```
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```

```
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

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

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
```

```
from __future__ import print_function
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
from antlr4 import *
<header>

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

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
  return self.visitChildren(ctx)

}; separator="\n">
```

```
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState)
 ]

  sharedContextCache = PredictionContextCache()

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

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

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

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

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

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">
```

```
<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex,
 None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

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



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
 if self._actions is None:
  actions = dict()
<recog.actionFuncs.values:{f|
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
 action = self._actions.get(ruleIndex, None)
 if action is not None:
  action(localctx, actionIndex)
 else:
  raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
   if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates =
 preds
   pred = self._predicates.get(ruleIndex, None)
   if pred is not None:
```

```
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

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

parser_ctor(p) ::= <<
def __init__(self, input):
    super(<parser.name>, self).__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method
 since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">
```

```
>>

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

<ruleCtx>

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

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

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

>>

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

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

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
```

```
  <namedActions.init>
  <locals; separator="\n">
  try:
      <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)>
 = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
```

```
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>
>>

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

<!else if ( !(<followExpr>) ) <error>!>
>>


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

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
```

```
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>

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

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
```

```
  else:
     <error>
  self.state = <choice.loopBackStateNumber>
 <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

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

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

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

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

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

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

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

```
cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

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

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

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

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

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
```

```
<p.msg><endif>)
>>

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

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

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

TokenPropertyRef_text(t)
 ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
```

```
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)
 ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

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

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

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

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)
     ::= <<
def <t.name>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

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

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

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

>>
```

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

>>

ContextRuleListIndexedGetterDecl(r)  ::= <<
def <r.name>(self, i=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext()
 ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)  ::= "_<ruleName>"
ImplicitSetLabel(id)   ::= "_tset<id>"
ListLabelName(label)   ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
     super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
     self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

  <getters:{g | <g>};
 separator="\n\n">

  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
  def copyFrom(self, ctx):
     super(<parser.name>.<struct.name>, self).copyFrom(ctx)
     <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
     super(<parser.name>.<struct.name>, self).__init__(parser)
     <attrs:{a | <a>}; separator="\n">
     self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
   if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
  if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
     return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

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

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

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

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

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


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile,
 lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

<namedActions.header>
```

```
<lexer>
>>

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

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

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

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

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

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

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

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None):
     super(<lexer.name>, self).__init__(input)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

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

>>

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

def serializedATN():
```

```
  with StringIO() as buf:
     buf.write(u"<model.serialized; wrap={")<\n>        buf.write(u"}>")
     return buf.getvalue()

>>

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

codeFileExtension() ::= ".py"

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.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] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
```

```
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions?
 EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
```

```
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
   ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
   : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
   ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
   | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
   | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
   |   terminal[label]     {$omos = $terminal.omos;}
```

```
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
   : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
   ;

range[GrammarAST label] returns [List<SrcOp> omos]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
   :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
   | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
   | ^(TOKEN_REF ARG_ACTION .) {$omos =
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
   | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
   | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
   ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption+)
   ;

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

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.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):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.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
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
```

```
 | '\\' c=~('$') {buf.append('\\').append((char)$c);}
 | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
 )+
;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
  ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: ~'=' (~';')*
;

fragment
WS : (' '|'\t'|'\n'|'\r')+
;
```

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// gramnmars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmmars 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 inheritence;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{}
 sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*             A3Parser.g
*             A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
```

```
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
 does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
```

```
 in this source and also the generated source
//
@lexer::header {
/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or subrule.
  *  Return token or null if for
```

```
some reason we can't find the start.
 */
public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
 int i = tokens.index();
      int n = tokens.size();
      if ( i>=n ) i = n-1; // seems index == n as we lex
 while ( i>=0 && i<n) {
  int ttype = tokens.get(i).getType();
  if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
   return tokens.get(i);
  }
  i--;
 }
 return null;
}
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line
 and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
```

```
        // Single line comment, possibly with embedded src/line directives
        // in a similar style to the C pre-processor, allowing generated
        // code to refer the programmer back to the original source code
        // in case of error.
        //
        '/'
         (
            (' $ANTLR')=> ' $ANTLR' SRC
          | ~(NLCHARS)*
         )

       | // Multi-line comment, which may be a documentation comment
         // if it starts /** (note that we protect against accidentaly
         // recognizing a comment /**/
as a documentation comment
         //
         '*' (
             { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
           | { true }?=>  // Required to cover all alts with predicates
             )

           // Should we support embedded multiline comments here?
           //
           (
              // Pick out end of multiline comment and exit the loop
              // if we find it.
              //
              {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

                // Anything else other than the non-greedy match of
                // the comment close sequence
                //
                .
           )*
         (
              // Look for the comment terminator, but if it is accidentally
              // unterminated, then we will hit EOF, which will trigger the
              // epsilon alt and hence we can issue an error message relative
              // to the
start of the unterminated multi-line comment
              //
              '*/'

            | // Unterminated comment!
              //
              {
                // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
```

```
            }
          )

      | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
    )
    {
      // We do not wish to pass the comments in to the parser. If you are
      // writing a formatter then you will want to preserve the comments off
      // channel, but could just skip and save token space if not.
      //
      $channel=COMMENTS_CHANNEL;
    }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
   |  {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
```

```
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
       (
          ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
      )*

      ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals
 in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION
  ( '?' {$type = SEMPRED;}
   ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
    {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.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 inadvertantly 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, delimters, operators, etc
//
COLON       : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;

      else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON  : '::'                 ;
COMMA       : ','                  ;
SEMI        : ';'                  ;
LPAREN      : '('                  ;
RPAREN      : ')'                  ;
RARROW      : '->'                 ;
LT          : '<'                  ;
GT          : '>'                  ;
```

```
ASSIGN      : '='                ;
QUESTION    : '?'                ;
SYNPRED     : '=>'
    {
     Token t = new CommonToken(input, state.type, state.channel,
                        state.tokenStartCharIndex, getCharIndex()-1);
   t.setLine(state.tokenStartLine);
   t.setText(state.text);
   t.setCharPositionInLine(state.tokenStartCharPositionInLine);
   grammarError(ErrorType.V3_SYNPRED, t);
          $channel=HIDDEN;
   }
        ;
STAR        : '*'
          ;
PLUS        : '+'                ;
PLUS_ASSIGN  : '+='              ;
OR          : '|'                ;
DOLLAR      : '$'                ;
DOT      : '.'                ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'               ;
AT          : '@'                ;
POUND       : '#'                ;
NOT         : '~'                ;
RBRACE      : '}'                ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
   {
   if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
   else $type = RULE_REF;
   }
  ;

fragment
NameChar    :   NameStartChar
        |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
```

```
        |   '\u00F8'..'\u02FF'
         |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertantly
 match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertantly recognize the end of a string or character when the terminating
```

```
// delimiter has been esacped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an aribtrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source
 spec
//
// A fragment rule for picking up information about an origrinating
// 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 disticintion between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
          {
          Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex,
 getCharIndex()-1);
          t.setLine(state.tokenStartLine);
          t.setText(state.text);
```

```
        t.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 seqeunce
      //
      {
          Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
          t.setText(t.getText());
          t.setLine(input.getLine());

         t.setCharPositionInLine(input.getCharPositionInLine()-1);
          grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
      }
    )
  ;

fragment
UNICODE_ESC

@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
```

```
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get 4. We cannot
      // use an inifinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
    (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
          (
             HEX_DIGIT  { hCount++; }
             (
                // Four valid hex digits, we are good
                //
                 HEX_DIGIT { hCount++; }

              | // Three valid digits
             )

           | // Two valid digits
          )

        | // One valid digit
      )
       )
      | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to
    //
    {
     if (hCount != 4) {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
     }
    }
   ;
```

```
// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
    ' '
     | '\t'
     | '\r'
      | '\n'
     | '\f'
   )+
   {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
  : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
```

```
// STRING_LITERAL.
UnicodeBOM
  :  '\uFEFF' {skip();}
  ;

// ------------------
// Illegal Character
//
// This
 is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

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* /antlr4-4-6-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
*
 /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
*
 /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java

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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Grammar.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
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 /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ATNFactory.java

* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Rule.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/misc/CharSupport.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
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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):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
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/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
```

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

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
```

```
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
```

```
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
                  GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST
 valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }
```

```
protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected
 void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }
```

```
protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected
 void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected
 void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
```

```
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected
 void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }
```

```
protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected
 void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
  :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
  )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
```

```
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init
 {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
    {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
    }
   ;
```

```
optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
  :  ID
  |  STRING_LITERAL
  |  INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :  ^(IMPORT
 delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
  :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |  id=ID      {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
```

```
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :   ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)*
 {finishRules($RULES);})
   ;
```

```
mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
 currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
      ret=ruleReturns?
      thr=throwsSpec?
      loc=locals?
```

```
      ( opts=optionsSpec
      |  a=ruleAction {actions.add($a.start);}
      )*
      {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
          $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
          $thr.start, $opts.start,
          $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
          actions, (GrammarAST)input.LT(1));}
      ruleBlock exceptionGroup
      {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
      )
    ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
    : exceptionHandler* finallyClause?
    ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
 (ActionAST)$ACTION);}
 ;

finallyClause
@init {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
```

```
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;
```

```
lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
      lexerOuterAlternative
    )+
   )
  ;

ruleBlock
@init {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
     outerAlternative
    )+
   )
  ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;
```

```
outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
    : ^(ALT lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after {
 exitLexerElement($start);
}
 : labeledLexerElement
 | lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
```

```
 ;

labeledLexerElement
@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
  :  ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
  ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
  :  terminal
  |  ^(NOT blockSet)
  |  blockSet
  |  ^(WILDCARD elementOptions)
  |  WILDCARD
  | LEXER_CHAR_SET
  |  range
  |  ruleref
  ;

actionElement
@init {
 enterActionElement($start);
}
@after
 {
 exitActionElement($start);
}
 : ACTION
```

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

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
  ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
```

```
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |
   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 |  block
   ;

lexerSubrule
```

```
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 |  lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after
 {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;
```

```
blockSet
@init {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                     {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
    ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
```

```
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
   :  ^(STRING_LITERAL elementOptions)
         {stringRef((TerminalAST)$STRING_LITERAL);}
   | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
   | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
   | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
   ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
   : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
   ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after
 {
 exitElementOption($start);
}
```

```
  : ID       {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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```
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*/
```

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java
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```
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*/

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

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

```
}

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

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

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

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

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

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
```

```
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

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

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.g
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*/

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

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

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

```
>>

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

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

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

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

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
```

```
format="cap">Context context) { \}}; separator="\n">

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

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

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

```
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

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

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<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) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes
 to this file may cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

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

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

>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache
 sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public const int
```

```
 <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
public const int
 <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
public static readonly string[] ruleNames = {
 <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

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

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

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

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

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

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

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

<atn>
}
>>

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

```
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

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

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

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

/* This generates a private method since the actionIndex is generated, making an
```

```
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex)
 {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

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

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

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx,
 <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
```

```
 <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

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

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

```
}
>>

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

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

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

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

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

```
 return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

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

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

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

```
>>

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

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

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

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

```
}
>>

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

// LL(*) stuff

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

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

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

```
 <iteration>
 <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

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

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

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

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

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

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

```
%>

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

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

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

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

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

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

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

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

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

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

// ACTION STUFF

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

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

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

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t)
 ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
```

```
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>
 = <rhsChunks>;%>

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

TokenDecl(t) ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "IList\<IToken> <csIdentifier.(tokenType.(t.name))> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
  "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
```

```
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>);
 }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
 return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)
  ::= "_<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
```

```
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't
 need copy unless we have subclasses !>
 public <struct.name>() { }
 public virtual void CopyFrom(<struct.name> context) {
  base.CopyFrom(context);
  <struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
 format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
public override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>
```

```
AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

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

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

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

//
 used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                 ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx,
 _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>
```

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


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

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

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache
 sharedContextCache = new PredictionContextCache();
 public const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <if(lexer.channels)>
 public const int
  <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <rest(lexer.modes):{m| public const int <modeName.(m)> = <i>;}; separator="\n">
 public static string[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 public static readonly string[] ruleNames = {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };
```

```
 <namedActions.members>

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

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

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

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

 public override string[] ModeNames { get { return modeNames; } }

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

 static <csIdentifier.(lexer.name)>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>


SerializedATN(model) ::= <<
private static string _serializedATN = _serializeATN();
private static string _serializeATN()
{
   StringBuilder sb = new StringBuilder();
   sb.Append("<model.serialized; wrap={");<\n><\t>sb.Append("}>");
   return sb.ToString();
}

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());


>>

initValue(typeName) ::= <<
```

```
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL"
 : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]

csIdentifier ::= [
 "abstract" : "@abstract",
 "as" : "@as",
 "base" : "@base",
 "bool" : "@bool",
 "break" : "@break",
 "byte" : "@byte",
 "case" : "@case",
 "catch" : "@catch",
 "char" : "@char",
 "checked" : "@checked",
 "class" : "@class",
 "const" : "@const",
 "continue" : "@continue",
 "decimal" : "@decimal",
 "default" : "@default",
 "delegate" : "@delegate",
 "do" : "@do",
 "double" : "@double",
 "else" : "@else",
 "enum" : "@enum",
 "event" : "@event",
 "explicit" : "@explicit",
 "extern" : "@extern",
 "false" : "@false",
 "finally" : "@finally",
```

"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null"
: "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",

"using" : "@using",
"virtual" : "@virtual",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]

Found in path(s):
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*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>

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* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/depend.stg
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*/
/**
```

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*/

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

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

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

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

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

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

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

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

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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

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

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
```

```
<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def
 exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

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

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
```

```
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

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

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

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

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

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

```
  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

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



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
 if self._actions is None:
  actions = dict()
<recog.actionFuncs.values:{f|
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
 action
 = self._actions.get(ruleIndex, None)
 if action is not None:
  action(localctx, actionIndex)
 else:
  raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
   if self._predicates is None:
       preds = dict()
```

```
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

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

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
  super().__init__(input)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates
 = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
      return <actions.(index)>
```

```
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

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

<ruleCtx>

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

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

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

>>

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

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

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
```

```
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>
```

```
>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
   <error>
>>

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

<!else if ( !(<followExpr>) ) <error>!>
>>


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

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break
```

```
>>

// LL(*) stuff

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

>>

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

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state =
 <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
```

```
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

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

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

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

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

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

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

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

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

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

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

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

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

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

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

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
   self._errHandler.reportMatch(self)
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

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

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

```
SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

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

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

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

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is
 None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
```

```
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

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

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

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

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

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

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>,
 i)
>>

ContextRuleGetterDecl(r)       ::= <<
```

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

>>

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

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

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

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.name><if(a.type)>:<a.type><endif>=None}>):
     super().__init__(parent, invokingState)
     self.parser = parser
     <attrs:{a | <a>}; separator="\n">
     <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">
```

```
  def getRuleIndex(self):
     return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx:ParserRuleContext):
     super().copyFrom(ctx)
     <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods)
 ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
     super().__init__(parser)
     <attrs:{a | <a>}; separator="\n">
     self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
     return visitor.visit<struct.derivedFromName; format="cap">(self)
   else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"
```

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

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

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

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

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

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
```

```
<namedActions.header>

<lexer>
>>

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

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [
 DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

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

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

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

  literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

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

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None):
     super().__init__(input)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

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

>>

SerializedATN(model)
```

```
 ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
     buf.write("<model.serialized; wrap={")<\n>       buf.write("}>")
     return buf.getvalue()

>>

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

codeFileExtension() ::= ".py"

Found in path(s):
* /antlr4-4-6-sources-1-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):
* /antlr4-4-6-sources-1-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"

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
```

```
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname;
 format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

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

import Antlr4


/**
```

```
* 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\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 open func enterEveryRule(_ ctx: ParserRuleContext) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 open func exitEveryRule(_ ctx: ParserRuleContext) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 open func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 open func visitErrorNode(_ node: ErrorNode) { }
}
```

```
>>

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

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
open class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
* Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T{
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

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

/**
```

```
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
open class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T? { return
visitChildren(ctx) \}}; separator="\n">
}
>>

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

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
open class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
    }()
 internal static let _sharedContextCache: PredictionContextCache = PredictionContextCache()
 <if(parser.tokens)>
 public enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
      <endif>
```

```
 public
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 public static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 override
 open func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

 override
 open func getRuleNames() -> [String] { return <parser.name>.ruleNames }

 override
 open func getSerializedATN() -> String { return <parser.name>._serializedATN }

 override
 open func getATN() -> ATN { return <parser.name>._ATN }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
   override
 open func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">

  default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
  public static let _serializedATN : String = <parser.name>ATN().jsonString
  public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
```

```
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
public static let VOCABULARY: Vocabulary = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
//@Deprecated
public let tokenNames: [String?]? = {
   let length = _SYMBOLIC_NAMES.count
   var tokenNames = [String?](repeating: nil, count: length)
 for i in 0..\<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) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

open override
 func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

public override init(_ input:TokenStream)throws {
   RuntimeMetaData.checkVersion("4.6", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
```

```
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
    default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>open func
<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
 var _alt:Int
<endif>
  <code>
 <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch
 ANTLRException.recognition(let re) {
 _localctx.exception = re
 _errHandler.reportError(self, re)
 try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
```

```
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif> func <currentRule.name>(
<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType>    {
 return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType>    {
 let _parentctx: ParserRuleContext? = _ctx
 var _parentState: Int = getState()
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
 var  _prevctx: <currentRule.ctxType>
 = _localctx
 var _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx =  <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock,
 locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
```

```
<!else
 if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case
 <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
```

```
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat
 {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw try ANTLRException.recognition(e: NoViableAltException(self))"
```

```
TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in
    <if(rest(s.bitsets))>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
        <rest(s.bitsets):{bits | testSet =
 testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator="\n">
    return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)!>
{  () -> Bool in
   <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
  <!var temp: Int64 =  Int64(<offsetShift(s.varName, bits.shift)>)!>
  <!temp = (temp \< 0) ? (64 + (temp % 64 )) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<\< temp)!>
  <!var test2: Int64 = (<first(bits.ttypes):{ttype
 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)};
separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=",">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
   return  Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough}  ; separator="\n">
<last(ttypes): {t
 | case .<t>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><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>)
<if(m.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>)
<if(m.labels)><m.labels:{l | <labelref(l)>
 = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
Token<endif>
}
else {
```

```
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
  throw try ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)
    ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode = <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
```

```
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::=
 "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: Array\<Token> = Array\<Token>()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>:Array\<<rdecl.ctxName>> = Array\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "open func <t.name>() -> TerminalNode? { return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0) }"
ContextTokenListGetterDecl(t)
```

```
 ::=
  "open func <t.name>() -> Array\<TerminalNode> { return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
}"
ContextTokenListIndexedGetterDecl(t)  ::= <<
open func <t.name>(_ i:Int) -> TerminalNode?{
 return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
}
>>
ContextRuleGetterDecl(r)       ::= <<
open func <r.name>() -> <r.ctxName>? {
 return getRuleContext(<r.ctxName>.self,0)
}
>>
ContextRuleListGetterDecl(r)   ::= <<
open func <r.name>() -> Array\<<r.ctxName>\> {
 return getRuleContexts(<r.ctxName>.self)
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
open func <r.name>(_ i: Int) -> <r.ctxName>? {
 return getRuleContext(<r.ctxName>.self,i)
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)
  ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<
open class
<struct.name>:<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>,
<interfaces; separator=", "><endif> {
 <attrs:{a | public var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)>public init(_ parent: ParserRuleContext,_ invokingState: Int) { super.init(parent, invokingState)
```

```
}<endif> !>
 <if(ctorAttrs)>
 public convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | , _ <a>}>) {
 self.init(parent, invokingState)
 <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
 }
 <endif>
 open override func getRuleIndex() -> Int { return <parser.name>.RULE_<struct.derivedFromName> }
<if(struct.provideCopyFrom)>
 <! don't need copy unless we have subclasses !>
 <!public init() { }!>
 public  func copyFrom(_ ctx: <struct.name>) {
 super.copyFrom(ctx)
 <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public  final class <struct.name>: <currentRule.name; format="cap">Context {
 <attrs:{a | public var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public init(_ ctx: <currentRule.name; format="cap">Context) {
 super.init()
 copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override
open func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if listener is <parser.grammarName>Listener {
   (listener as!
<parser.grammarName>Listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method)
 ::= <<
override
open func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
```

```
 if visitor is <parser.grammarName>Visitor {
     return (visitor as! <parser.grammarName>Visitor\<T>).visit<struct.derivedFromName; format="cap">(self)
 }else if visitor is <parser.grammarName>BaseVisitor {
    return (visitor as! <parser.grammarName>BaseVisitor\<T>).visit<struct.derivedFromName; format="cap">(self)
  }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
```

```
try pushNewRecursionContext(_localctx, _startState,
 <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
open class <lexer.name>: <superClass; null="Lexer"> {
 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }

 return decisionToDFA
   }()

 internal static let _sharedContextCache:PredictionContextCache = PredictionContextCache()
 public static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <if(lexer.channels)>
   public let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <rest(lexer.modes):{m| public static let <m>: Int = <i>;}; separator="\n">
 public static let modeNames: [String] = [
```

```
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
]

public static let ruleNames: [String] = [
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>
  open override func getVocabulary() -> Vocabulary {
     return <lexer.name>.VOCABULARY
  }

public override init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN,
<lexer.name>._decisionToDFA, <lexer.name>._sharedContextCache)
}

override
open func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

  override
open func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override
open func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override
open func getModeNames() -> [String] { return <lexer.name>.modeNames }

override
open func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
  public static let _serializedATN: String = <lexer.name>ATN().jsonString
public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
*  which is referenced from static field _serializedATN.  This json string is passed to
*  deserializeFromJson(). Note this is not the "serialization as array of ints" that
 other targets
*  do. It is more or less the output of ATNPrinter which gets read back in.
```

```
*/
SerializedATN(model) ::= <<
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"
```

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```

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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
 int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
```

```
;

ruleModifier
  : PUBLIC
  | PRIVATE
  | PROTECTED
  ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
  (
   o=outerAlternative
   {if ($o.isLeftRec) $isLeftRec = true;}
   {currentOuterAltNumber++;}
  )+
 )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
  :  (binary)=>          binary
                    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  (prefix)=>          prefix
                    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |  (suffix)=>          suffix
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^(
 ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
  element+
  recurse epsilonElement*
  )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
  :  ^( ALT elementOptions? recurse element+ )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;
```

```
nonLeftRecur
  :   ^(ALT elementOptions? element+)
  ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL         {$t = $b;}
   | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
   | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF              {$t = $c;}
 ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)

  ;

elementOption
   : ID
   |   ^(ASSIGN ID ID)
   |   ^(ASSIGN ID STRING_LITERAL)
   |   ^(ASSIGN ID ACTION)
   |   ^(ASSIGN ID INT)
   ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
   | ^(SET setElement+)
   |   RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
```

```
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
   |   ^( OPTIONAL block )
   |   ^( CLOSURE block )
   |   ^( POSITIVE_CLOSURE block )
   ;

block
   : ^(BLOCK ACTION? alternative+)
   ;

alternative
 : ^(ALT elementOptions? element+)
   ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
   |  ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
   | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
   | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT ID element)
 ;
```

Found in path(s):

*

/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.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');

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
 antlr4.tree.ParseTreeVisitor.call(this);
 return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname
|
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
 return this.visitChildren(ctx);
\};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>
```

```
var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap,
 anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var ruleNames =  [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
 <superClass; null="antlr4.Parser">.call(this, input);
   this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
   this.ruleNames = ruleNames;
   this.literalNames = literalNames;
   this.symbolicNames = symbolicNames;
 <namedActions.members>
   return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
 get : function() {
  return atn;
 }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;};
 separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sempredFuncs)>
```

```
<parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch(ruleIndex) {
 <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
  return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
   default:
       throw "No predicate with index:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f|
 case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
```

```
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
 switch(predIndex) {
  <actions:{index|
 case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

   var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
   this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
   <namedActions.init>
```

```
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  } catch (re)
{
   if(re instanceof antlr4.error.RecognitionException) {
        localctx.exception = re;
        this._errHandler.reportError(this, re);
        this._errHandler.recover(this, re);
    } else {
     throw re;
    }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
  var _parentctx = this._ctx;
  var _parentState = this.state;
  var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
  var _prevctx = localctx;
  var _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>,
 _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
```

```
      <postamble; separator="\n">
      <namedActions.after>
  } catch( error) {
      if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
    } else {
     throw error;
    }
  } finally {
      <finallyAction>
      this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
};

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals;
 separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
```

```
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble,
 iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff
```

```
AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var
```

```
 _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\<
<offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
```

```
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>);
>>

MatchToken(m)
 ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state
 = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip()"
LexerMoreCommand()  ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t)
 ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
```

```
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label>===null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name>
 = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
<t.name> = function() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.name> = function(i) {
 if(i===undefined) {
  i = null;
 }
```

```
  if(i===null) {
     return this.getTokens(<parser.name>.<t.name>);
  } else {
     return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.name> = function() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.name> = function(i) {
  if(i===undefined) {
     i = null;
  }
  if(i===null) {
     return this.getTypedRuleContexts(<r.ctxName>);
  } else {
     return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"
```

```
CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
 if(parent===undefined)
 {
    parent = null;
 }
 if(invokingState===undefined || invokingState===null) {
  invokingState = -1;
 }
 <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, parent,
invokingState);
   this.parser = parser;
   this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
   <attrs:{a | <a>}; separator="\n">
   <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n">
   return this;
}

<struct.name>.prototype =
Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
   <struct.attrs:{a | this.<a.name> = ctx.<a.name>;};
 separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
 <currentRule.name; format="cap">Context.call(this, parser);
   <attrs:{a | <a>;}; separator="\n">
   <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
   return this;
}
```

```
<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">
<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(this);
 }
};

>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
     return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
     return visitor.visitChildren(this);
  }
};

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName,
 label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
```

```
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
var
 antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);
```

```
var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

function <lexer.name>(input) {
 <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
  this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
  return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<rest(lexer.modes):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<lexer.name>.prototype.modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ",
 wrap, anchor> ];

<lexer.name>.prototype.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap,
anchor> ];

<lexer.name>.prototype.ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var serializedATN = ["<model.serialized; wrap={",<\n>    "}>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
```

<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
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*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",

```
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @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>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
```

```
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default
implementation does nothing.\</p>
 */
@Override public void visitTerminal(TerminalNode node) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
```

```
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> {
 <file.visitorNames:{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); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>};
 separator=", ", wrap, anchor>;
 <endif>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 public static final String[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values;
```

```
 separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static final String[] _LITERAL_NAMES = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static final String[] _SYMBOLIC_NAMES = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i] = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>
```

```
dumpActions(recog,
 argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
```

```
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=",">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new
 <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.name>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
```

```
 exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.name>(0<currentRule.args:{a
 | , <a.name>}>);
}

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
```

```
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::=
 <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice,
 expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
```

```
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)>
 = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
```

```
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount)
 ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m)
 ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.name>);
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if
 (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"
```

```
LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
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_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)
 ::= "(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"
```

```
TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List\<Token> <t.name> = new ArrayList\<Token>()"
RuleContextDecl(r)
 ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.name> = new ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.name>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public List\<<r.ctxName>\> <r.name>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.name>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed
 by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"
```

```
StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a
| this.<a.name> = <a.name>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.name>() { }
 public void copyFrom(<struct.name> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener
 )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
```

```
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()
             ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>
```

```
recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx
 = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache
 _sharedContextCache =
  new PredictionContextCache();
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <if(lexer.channels)>
 public static final int
  <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <rest(lexer.modes):{m| public static final int <m> = <i>;}; separator="\n">
 public static String[] modeNames = {
```

```
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static final String[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

public <lexer.name>(CharStream input) {
 super(input);
 _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String
getSerializedATN() { return _serializedATN; }

@Override
public String[] getModeNames() { return modeNames; }

@Override
public ATN getATN() { return _ATN; }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
```

```
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for
 (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"
```

Found in path(s):
* /antlr4-4-6-sources-1-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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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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```

```
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
     {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;
```

```
lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns
 [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET     {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
   {$p = factory.listLabel($element.p);}
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
```

```
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
   ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p
 = $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)        {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF           {$p = factory.ruleRef($RULE_REF);}
   ;

range returns [ATNFactory.Handle p]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
   ;

terminal returns [ATNFactory.Handle p]
   :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
   | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
   | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
   | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
   | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
   ;
```

```
elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID
 ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g

1.504 tika-parser-zip-commons 3.2.2

1.504.1 Available under license :

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1.505 groovy 2.4.21

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Found in path(s):

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 /groovy-2-4-21-sources-jar/org/codehaus/groovy/ast/expr/ListExpression.java
* /groovy-2-4-21-sources-jar/org/codehaus/groovy/classgen/asm/UnaryExpressionHelper.java
* /groovy-2-4-21-sources-jar/groovy/util/ClosureComparator.java
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* /groovy-2-4-21-sources-jar/org/codehaus/groovy/antlr/java/PreJava2GroovyConverter.java
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* /groovy-2-4-21-sources-jar/org/codehaus/groovy/control/messages/ExceptionMessage.java
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* /groovy-2-4-21-sources-jar/org/codehaus/groovy/util/ReferenceBundle.java
* /groovy-2-4-21-sources-jar/org/codehaus/groovy/syntax/Types.java
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* /groovy-2-4-21-sources-jar/org/codehaus/groovy/runtime/NullObject.java
* /groovy-2-4-21-sources-jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaMethodSite.java
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* /groovy-2-4-21-sources-jar/groovy/transform/ConditionalInterrupt.groovy
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* /groovy-2-4-21-sources-jar/org/codehaus/groovy/control/messages/LocatedMessage.java
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global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation

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1.507 logback-core 1.5.7

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Found in path(s):
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/EnvUtil.java
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Found in path(s):
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/AppenderRefModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/AppenderModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/NamedComponentModel.java

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Found in path(s):
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/ParamAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/parser/Token.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/LifeCycleManager.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/server/ServerRunner.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/JoranException.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/subst/Tokenizer.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/OptionHelper.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/parser/Compiler.java

* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/status/ErrorStatus.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/color/BoldWhiteCompositeConverter.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/encoder/EncoderBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/ConverterUtil.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java

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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/FileUtil.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java
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 /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/ScanException.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/ImportAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/hook/ShutdownHookBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/ActionUtil.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/encoder/Encoder.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/SyslogConstants.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/AggregationType.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/ConsoleAppender.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/SocketConnector.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/server/ServerSocketListener.java
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/logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/Context.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/helper/Compressor.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/status/OnConsoleStatusListener.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/PropertyAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/sift/AppenderTracker.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/CharSequenceState.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/html/HTMLLayoutBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
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/logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java

* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/SiftAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/html/NOPThrowableRenderer.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/XMLUtil.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/html/CssBuilder.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/EventEvaluatorAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/FormattingConverter.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/ssl/SSL.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/JoranConstants.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/PropertyContainer.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/LogbackException.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/RollingPolicy.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverServerListener.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/helpers/Transform.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/AppenderAttachable.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/SequenceNumberGeneratorAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/status/StatusBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/conditional/Condition.java
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 /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/Loader.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/DelayStrategy.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java

* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/status/NopStatusListener.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/spi/ElementPath.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/event/stax/BodyEvent.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/TimestampModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/ShutdownHookModelHandler.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/PhaseIndicator.java

* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/conditional/IfModelHandler.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/conditional/ElseModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/ImportModel.java
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/logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/conditional/IfAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/NamedModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/StatusListenerModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/net/HardenedObjectInputStream.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/recovery/RecoveryListener.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/ImplicitModelAction.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/DefineModel.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/conditional/IfModel.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/EventEvaluatorModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/TimestampModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/ProcessingPhase.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/ComponentModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/SiftModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/ShutdownHookModel.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/AppenderModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/InsertFromJNDIModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/ModelConstants.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/util/TagUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/Model.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/NOPModelHandler.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/ImplicitModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/GenericXMLConfigurator.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/RollingFileAppender.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/ImplicitModelDataForComplexProperty.java
*
 /logback-core-1-5-7-sources-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/StringListAppender.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/RandomUtil.java
*
 /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/MockInitialContext.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/ConfigurationEvent.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/FileTestUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/MockInitialContextFactory.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/SimpleInvocationGate.java

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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/ModelUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/util/VariableSubstitutionsHelper.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/StatusPrinter2.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/IncludeModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/util/StringUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/util/PropertyModelHandlerHelper.java
*
 /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/ConversionRuleModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/util/AggregationAssessor.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/ConversionRuleModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/spi/ContextAwarePropertyContainer.java
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* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/processor/SerializeModelModelHandler.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java

* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/DummyEncoder.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/testUtil/XTeeOutputStream.java
*
/logback-core-1-5-7-sources-jar/ch/qos/logback/core/model/SerializeModelModel.java
* /logback-core-1-5-7-sources-jar/ch/qos/logback/core/joran/action/SerializeModelAction.java

1.508 metrics 4.2.16

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1.509 feign-jackson 8.18.0

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Found in path(s):
* /feign-jackson-8-18-0-sources-jar/feign/jackson/JacksonDecoder.java
* /feign-jackson-8-18-0-sources-jar/feign/jackson/JacksonEncoder.java

1.510 checksums 2.31.78

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1.511 lucene-queries 9.12.2

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The snowball stemmers in
 analysis/common/src/java/net/sf/snowball
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The KStem stemmer in
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The
 German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The
Stempel analyzer (stempel) includes BSD-licensed software developed
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See https://github.com/carrot2/carrot2.

The SmartChineseAnalyzer source code (smartcn) was
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The Morfologik analyzer (morfologik) includes BSD-licensed software
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and uses
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==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==

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mecab-ipadic-2.7.0-20070801

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1.513 jackson-datatype-jsr310 2.19.2

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1.514 junit-jupiter-params 5.9.3

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1.515 javassist 3.25.0-GA

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* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Webserver.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/CtMethod.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Sample.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/RuntimeSupport.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapAgent.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Parser.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewArray.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/IntConst.java
*
/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Reflection.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/convert/Transformer.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/expr/Cast.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformWriteField.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/CtBehavior.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SymbolTable.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypedBlock.java
*
/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Member.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewExpr.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Desc.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/CtConstructor.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/EnclosingMethodAttribute.java
*
/javassist-3-25-0-ga-sources-3-jar/javassist/CtArray.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/CompileError.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/CannotCompileException.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformAfter.java

* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Analyzer.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionTable.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/DoubleConst.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/BinExpr.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Util.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/Proxy.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Type.java
*
 /javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/KeywordTable.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/NestMembersAttribute.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LocalVariableAttribute.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotReflectException.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CallExpr.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Compiler.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/Dump.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeIterator.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/expr/Instanceof.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AnnotationDefaultAttribute.java
*
 /javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Inner.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Opcode.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Loader.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/expr/Handler.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/CtClass.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/InstanceOfExpr.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/SerialVersionUID.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/expr/FieldAccess.java
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* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
*
/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
*
/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.516 fastutil 6.5.7

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1.517 netty-transport-classes-epoll 4.1.126.Final

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/opt/cola/permits/2614416852_1760734763.665748/0/netty-transport-classes-epoll-4-1-126-final-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2614416852_1760734763.665748/0/netty-transport-classes-epoll-4-1-126-final-jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties# Copyright 2023 The Netty Project

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*
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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-classes-epoll
Built-By: root
Bnd-LastModified: 1756906017398
Specification-Title: Netty/Transport/Classes/Epoll
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.cha
nnel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.
util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[
4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.intern
al.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.ecli
pse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.
alpn;version="[1,2)";resolution:=optional,org.bouncycastle.jcajce.pro
vider;version="[1.0,2)";resolution:=optional
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty
.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,
io.netty.util.concurrent";version="4.1.126"
Bundle-Name: Netty/Transport/Classes/Epoll
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Transport/Classes/Epoll
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.transport.classes.epoll
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project

Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-transport-classes-epoll/

Found
in path(s):
* /netty-transport-classes-epoll-4-1-126-final-jar/META-INF/MANIFEST.MF

1.518 asm-commons 9.8

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Found in path(s):
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/Method.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/StaticInitMerger.java
*
/asm-commons-9-8-sources-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/ModuleRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/RecordComponentRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/FieldRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/MethodRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/ClassRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/Remapper.java
*

/asm-commons-9-8-sources-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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/**
  * Constructs a new {@link AnnotationRemapper}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #AnnotationRemapper(int,String,AnnotationVisitor,Remapper)}
  * version.
  *
  * @param descriptor the descriptor of the
 visited annotation. May be {@literal null}.
  * @param annotationVisitor the annotation visitor this remapper must delegate to.
  * @param remapper the remapper to use to remap the types in the visited annotation.
  */
```

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/**
  * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
  * version.
  *
```

```
  * @param methodVisitor the method visitor
 to which this adapter delegates calls.
  * @param access the method's access flags (see {@link Opcodes}).
  * @param name the method's name.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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/**
  * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
  * version.
  *
  * @param access access flags of the adapted
 method.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @param methodVisitor the method visitor to which this adapter delegates calls.
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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/**
  * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
  * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
  * version.
  *
  * @param classVisitor a {@link ClassVisitor} to which
 this visitor will delegate calls.
  * @throws IllegalStateException If a subclass calls this constructor.
  */

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```

* /asm-commons-9-8-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java

1.519 gson 2.11.0

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* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonScope.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonReader.java

* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonToken.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonWriter.java
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* /gson-2-11-0-sources-1-jar/com/google/gson/internal/reflect/ReflectionHelper.java
* /gson-2-11-0-sources-1-jar/com/google/gson/ToNumberPolicy.java
* /gson-2-11-0-sources-1-jar/com/google/gson/ToNumberStrategy.java
* /gson-2-11-0-sources-1-jar/com/google/gson/stream/package-info.java
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1.522 apache-log4j 2.17.1

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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/SimpleURType.java
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1.525 rfc5545-datetime 0.2.4

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1.526 aws-xml-protocol 2.31.78

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1.527 commons-codec 1.14

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1.528 jackson-dataformat-xml 2.15.0

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Multi-producer/multi-consumer bounded queue.

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#
$Id: javaee-api.bnd 13444 2008-03-28 15:57:28Z benoitf $
--

-exportcontents org.apache.xmlbeans.*;version=${xmlbeans.version}

Import-Package !com.sun.*,\
!org.apache.tools.ant.*,\
!org.apache.xml.resolver.*,\
!org.apache.crimson.*,\
org.w3c.dom,\
*

Private-Package !*

Embed-Dependency xmlbeans;inline=true

Found in path(s):
* /xmlbeans-5-3-0-sources-1-jar/META-INF/xmlbeans.bnd

1.533 metrics-jvm 4.2.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to monitor critic
al aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.2.25
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.25"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.25
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jvm-4-2-25-jar/META-INF/MANIFEST.MF

1.534 cryptacular 1.2.5

1.535 groovy-all 2.4.21

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org.codehaus.groovy.testng.TestNgRunner

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org.codehaus.groovy.jsr223.GroovyScriptEngineFactory

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global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation

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 in path(s):
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*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/overview-frame.html
* /groovy-all-2-4-21-sources-2-jar/groovy/time/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/treewalker/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/binding/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/package.html
* /groovy-all-2-4-21-sources-2-

jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/classLevel/classDocStructuredData.xml
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* /groovy-all-2-4-21-sources-2-jar/groovy/swing/binding/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/packageDocStructuredData.xml
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/vmplugin/package.html
*
/groovy-all-2-4-21-sources-2-jar/groovy/inspect/swingui/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/index-all.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/template.overview-frame.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/metaclass/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/mock/interceptor/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/syntax/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/model/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/xml/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/rootDocStructuredData.xml
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/package.html
*
/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/classLevel/classDocName.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlib.xml
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/package-summary.html
* /groovy-all-2-4-21-sources-2-jar/groovy/text/markup/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/inspect/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/messages/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/deprecated-list.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/package.html
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/index.html
* /groovy-all-2-4-21-sources-2-jar/groovy/io/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/allclasses-frame.html
*
/groovy-all-2-4-21-sources-2-jar/groovy/swing/impl/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/template.allclasses-frame.html
* /groovy-all-2-4-21-sources-2-jar/groovy/sql/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/bsf/package.html
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/index.html
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/overview-summary.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/template.package-frame.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/template.package-summary.html
* /groovy-all-2-4-21-sources-2-jar/overview.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ant/package.html
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/overview-summary.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/io/package.html
* /groovy-all-2-4-21-sources-2-jar/overviewj.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/help-doc.html
* /groovy-all-2-4-21-sources-2-jar/groovy/servlet/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/stmt/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/security/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/ui/text/package.html
* /groovy-all-2-4-21-sources-2-jar/groovy/ui/package.html
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/template.index-all.html
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/SaveCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/EditCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/CommandAlias.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/PurgeCommand.properties
* /groovy-all-2-4-21-sources-2-jar/META-INF/groovy-release-info.properties
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/AliasCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/CommandSupport.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/DocGenerator.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/DisplayCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/InspectCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/RegisterCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/ShowCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/Main.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/LoadCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/Groovysh.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/ExitCommand.properties
*
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/HelpCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/RecordCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/SetCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/ClearCommand.properties
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/commands/ImportCommand.properties
* /groovy-all-2-4-21-sources-2-jar/groovy/ui/InteractiveShell.properties
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# Format: one extension on each line without the leading "*."
# Listed below are default groovy source file extensions.

# NOTE: This implementation
 of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy
```

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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/tools/ParameterUtils.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/util/CharSequenceReader.java
*

/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java
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```

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* /groovy-all-2-4-21-sources-2-jar/groovy/transform/ExternalizeVerifier.java
* /groovy-all-2-4-21-sources-2-jar/groovy/beans/DefaultPropertyWriter.java
*
/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyDoc.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/CompileUnit.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/RootLoader.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/GroovyException.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/Type.java
* /groovy-all-2-4-21-sources-2-jar/groovy/ui/view/BasicStatusBar.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/GroovyCallable.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/FormattedTextFactory.groovy
* /groovy-all-2-4-21-sources-2-
jar/org/codehaus/groovy/transform/sc/transformers/StaticMethodCallExpressionTransformer.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/AllTestSuite.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesClosureWriter.java
*
/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/LazyASTTransformation.java
* /groovy-all-2-4-21-sources-2-jar/groovy/beans/ListenerList.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/java/PreJava2GroovyConverter.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/JsonFastParser.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/slurpersupport/FilteredAttributes.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/ProcessingUnit.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java

* /groovy-all-2-4-21-sources-2-jar/groovy/lang/PropertyAccessInterceptor.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/GString.java
*
 /groovy-all-2-4-21-sources-2-jar/groovy/lang/Lazy.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/TupleExpression.java
* /groovy-all-2-4-21-sources-2-jar/groovy/xml/streamingmarkupsupport/Builder.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/completion/CommandNameCompleter.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/util/GroovyTestCase.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/SortableASTTransformation.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExceptionNoStack.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyTag.java
* /groovy-all-2-4-21-sources-2-jar/groovy/text/markup/DelegatingIndentWriter.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/reflection/stdclasses/FloatCachedClass.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/groovydoc/GroovyMethodDoc.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/ByteScanner.java
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/vmplugin/VMPluginFactory.java
* /groovy-all-2-4-21-sources-2-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyAbstractableElementDoc.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/TypeChooser.java
* /groovy-all-2-4-21-sources-2-
jar/org/codehaus/groovy/control/customizers/builder/SecureASTCustomizerFactory.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/ImageIconFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/metaclass/DefaultMetaClassInfo.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/typehandling/NumberMathModificationInfo.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/MethodClosure.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/JsonParser.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/TextArgWidgetFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/ToString.java
*
 /groovy-all-2-4-21-sources-2-jar/groovy/mock/interceptor/Ignore.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/util/GroovyTestSuite.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/ParserPlugin.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/genArrays.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/jmx/builder/JmxBuilderTools.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/binding/SourceBinding.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/AbstractASTTransformation.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/InternalFrameFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/AutoExternalize.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/BenchmarkInterceptor.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/MetaArrayLengthProperty.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyFieldDoc.java
* /groovy-all-2-4-21-sources-2-jar/groovy/ui/text/StructuredSyntaxDocumentFilter.java
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/ExpressionAsVariableSlot.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyClassDoc.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/stc/DelegationMetadata.java

* /groovy-all-2-4-21-sources-2-jar/groovy/xml/StreamingDOMBuilder.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/ArrayUtil.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/CharsetToolkit.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/sc/StaticCompilationVisitor.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/binding/JComboBoxProperties.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/util/MessageSource.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/reflection/stdclasses/BigIntegerCachedClass.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/stmt/ReturnStatement.java
*
 /groovy-all-2-4-21-sources-2-jar/groovy/transform/Field.java
* /groovy-all-2-4-21-sources-2-jar/groovy/ui/ConsoleApplet.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/m12n/MetaInfExtensionModule.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/AttributeExpression.java
* /groovy-all-2-4-21-sources-2-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayPutAtMetaMethod.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/BufferManager.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/util/slurpersupport/NamespaceAwareHashMap.java
* /groovy-all-2-4-21-sources-2-jar/groovy/grape/GrabAnnotationTransformation.java
* /groovy-all-2-4-21-sources-2-jar/groovy/servlet/GroovyServlet.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/sc/StaticPropertyAccessHelper.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/PatchedConsoleReader.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/ObservableList.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/stmt/WhileStatement.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/VariableSlotLoader.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/StringEscapeUtils.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/wrappers/PojoWrapper.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/messages/SimpleMessage.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/m12n/PropertiesModuleFactory.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/StringGroovyMethods.java
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/reflection/stdclasses/CachedSAMClass.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/GeneratedGroovyProxy.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/ScrollPaneFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/GrabConfig.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/NotYetImplementedASTTransformation.java
* /groovy-all-2-4-21-sources-2-
jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/ListFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/LayoutFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/MissingClassException.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/treewalker/VisitorAdapter.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/typehandling/GroovyCastException.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/MapWithDefault.java

*
 /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/CollectionFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/groovydoc/GroovyClassDoc.java
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/Canonical.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/StringTestUtil.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/memoize/MemoizeCache.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/wrappers/ShortWrapper.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/GroovySourceAST.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/vmplugin/v5/JUnit4Utils.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/stmt/DoWhileStatement.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/Eval.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/ConfigurationException.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/slurpersupport/NoChildren.java
*
 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/stmt/ExpressionStatement.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/binding/EventTriggerBinding.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/JsonOutput.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/ReaderCharacterSource.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/IllegalPropertyAccessException.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/util/CommandArgumentParser.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/xml/NamespaceBuilder.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/TernaryExpression.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/impl/TableLayout.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/AbstractFactory.java
*
 /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/RootPaneContainerFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/util/slurpersupport/NodeIterator.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/metaclass/ThreadManagedMetaBeanProperty.java
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/IndexedProperty.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/ModuleNode.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyMemberDoc.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/TableFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/trait/TraitComposer.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/GroovyAssert.java
* /groovy-all-2-4-21-sources-2-jar/groovy/inspect/TextTreeNodeMaker.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/util/Reference.java
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 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java
* /groovy-all-2-4-21-sources-2-jar/groovy/io/FileType.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoPropertySite.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassGetPropertySite.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/slurpersupport/Node.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/GroovyLogTestCase.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/stmt/IfStatement.java

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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/binding/ClosureSourceBinding.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/typehandling/LongMath.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/util/XmlCommandRegistrar.groovy
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 /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/messages/LocatedMessage.java
* /groovy-all-2-4-21-sources-2-jar/groovy/sql/ResultSetMetaDataWrapper.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/ASTRuntimeException.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/StaticTypesTransformation.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/MixinNode.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/GrapeMain.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/StaticMethodCallExpression.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/inspect/swingui/TableSorter.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/json/JsonSlurper.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/lang/MissingPropertyException.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ant/UberCompileTask.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/CurriedClosure.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/ui/view/BasicMenuBar.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/ColumnModelFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/genDgmMath.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/powerassert/Value.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/ClassNodeResolver.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/Sys.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/io/StringReaderSource.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/StackTraceUtils.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/vmplugin/VMPlugin.java
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/SelfType.java
* /groovy-all-2-4-21-sources-2-jar/groovy/jmx/builder/JmxEventEmitter.java
* /groovy-all-2-4-21-sources-2-jar/groovy/io/PlatformLineWriter.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java
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/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/Compiler.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/util/ReferenceManager.java
* /groovy-all-2-4-21-sources-2-jar/groovy/jmx/builder/JmxServerConnectorFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/binding/JListMetaMethods.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/binding/JSpinnerProperties.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/testng/TestNgRunner.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/MetaObjectProtocol.java
* /groovy-all-2-4-21-sources-2-jar/groovy/xml/MarkupBuilderHelper.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/sc/TemporaryVariableExpression.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/AsmClassGenerator.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/BoxLayoutFactory.groovy
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* /groovy-all-2-4-21-sources-2-jar/groovy/sql/ExpandedVariable.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/customizers/builder/ImportCustomizerFactory.java
* /groovy-all-2-4-21-sources-2-jar/groovy/mock/interceptor/StrictExpectation.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/tools/GeneralUtils.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/BytecodeInstruction.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/sc/StaticCompilationMopWriter.java
* /groovy-all-2-4-21-sources-2-jar/groovy/sql/GroovyResultSetExtension.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/powerassert/SourceText.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/Singleton.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/ArrayUtils.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/time/TimeDuration.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/security/GroovyCodeSourcePermission.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/typehandling/BigIntegerMath.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/io/GroovyPrintWriter.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/asm/MopWriter.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/text/markup/BaseTemplate.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/model/NestedValueModel.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/CastExpression.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/groovydoc/GroovyAnnotationRef.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/InnerClassVisitor.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/util/HashCodeHelper.java
* /groovy-all-2-4-21-sources-2-jar/groovy/inspect/swingui/AstBrowserProperties.groovy
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/impl/ClosureCellEditor.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/control/CompilationUnit.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/MissingMethodException.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/metaclass/OwnedMetaClass.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/CharBuf.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/SourceInfo.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/DeclarationExpression.java
* /groovy-all-2-4-21-sources-2-jar/groovy/lang/GroovyCodeSource.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/swing/binding/AbstractButtonProperties.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/PackageNode.java
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/builder/DefaultStrategy.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/classgen/Verifier.java
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* /groovy-all-2-4-21-sources-2-jar/groovy/transform/stc/FromAbstractTypeMethods.java
* /groovy-all-2-4-21-sources-2-jar/groovy/beans/Bindable.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/IO.java
*
/groovy-all-2-4-21-sources-2-jar/groovy/util/ObservableSet.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/impl/TableLayoutCell.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/antlr/GroovySourceToken.java
* /groovy-all-2-4-21-sources-2-jar/groovy/swing/factory/FrameFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassSite.java
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/stc/SingleSignatureClosureHint.java
* /groovy-all-2-4-21-sources-2-jar/groovy/jmx/builder/JmxBuilderException.java
* /groovy-all-2-4-21-sources-2-jar/groovy/transform/CompilationUnitAware.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/binding/PropertyChangeProxyTargetBinding.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/ConstructorNode.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/SocketGroovyMethods.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/internal/FastStringUtils.java
*
/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/shell/util/SimpleCompletor.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/DefaultGroovyMethods.java
* /groovy-all-2-4-21-sources-2-jar/groovy/json/JsonParserType.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/AntBuilder.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/ClosureComparator.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/javac/JavaAwareResolveVisitor.java
* /groovy-all-2-4-21-sources-2-jar/groovy/jmx/builder/JmxBuilderModelMBean.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/transform/ASTTestTransformation.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ant/Groovydoc.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/runtime/memoize/LRUCache.java
* /groovy-all-2-4-21-sources-2-jar/groovy/jmx/builder/JmxListenerFactory.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/tools/FileSystemCompiler.java
*
/groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/builder/AstStringCompiler.groovy
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/ConstantExpression.java
* /groovy-all-2-4-21-sources-2-jar/groovy/util/slurpersupport/NodeParents.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/ast/expr/ClassExpression.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/syntax/TokenMismatchException.java
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* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
* /groovy-all-2-4-21-sources-2-jar/org/codehaus/groovy/jsr223/GroovyCompiledScript.java
```

1.536 azure-identity 1.13.2

1.536.1 Available under license :

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```
// Copyright (c) Microsoft Corporation. All rights reserved.
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/**
    * Enables additional support logging for public and confidential client applications. This enables
    * PII logging in MSAL4J as described <a href="https://learn.microsoft.com/entra/msal/java/advanced/msal-logging-java#personal-and-organization-information">here.</a>
    *
    * <p><b>This operation will log PII including tokens. It should only be used when directed by support.</b>
    *
    * @return An updated instance of this builder with additional support logging enabled.
    */
```

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/**
    * Configure the time out to use re-use confidential client for. Post time out, a new instance of client is created.
    *
    * @param clientAssertionTimeout the time out to use for the client assertion configured via
    * {@link IdentityClientBuilder#clientAssertionPath(String)}.
    * @return the updated IdentityClientBuilder.
    */
```

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```
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/**
    * Acquire a token from the confidential client.
    *
    * @param request the details of the token request
    * @return An access token, or null if no token exists in the cache.
    */
```

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* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IdentitySyncClient.java
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* ---
* Note:
*
* The AES implementation taken from the project: https://github.com/cternes/openkeepass
*
* is specifically from the following file:
*
* https://github.com/cternes/openkeepass/blob/master/src/main/java/de/slackspace/openkeepass/crypto/Aes.java
*
* The original idea is modified and refactored to adapt to identity use case.
* ---
*/

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* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/MsalAuthenticationAccount.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/PowershellManager.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/OnBehalfOfCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureApplicationCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/InteractiveBrowserCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IntelliJCacheAccessor.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/CertificateUtil.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/package-info.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/CredentialBuilderBaseHelper.java
*
 /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IdentityClientBase.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/EnvironmentCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IdentityClient.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AppServiceMsiCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/IdentityConstants.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/ManagedIdentityParameters.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/UsernamePasswordCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IdentityClientOptions.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/IntelliJCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/ValidationUtil.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/models/OidcTokenResponse.java
*
 /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AuthorizationCodeCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureCliCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/IdentitySslUtil.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/MsalToken.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/SharedTokenCacheCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ManagedIdentityServiceCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ServiceFabricMsiCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/EnvironmentCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ManagedIdentityCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/HttpPipelineAdapter.java
*

/azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzurePipelinesCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/intellij/IntelliJKdbxMetadata.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/WindowsCredentialApi.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ClientCertificateCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureDeveloperCliCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/DefaultAzureCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ClientCertificateCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/SynchronizedAccessor.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/CredentialBuilderBase.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/package-info.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/CustomClaimRequest.java
*
/azure-identity-1-13-2-sources-1-jar/com/azure/identity/ChainedTokenCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/IntelliJCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/TokenCachePersistenceOptions.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureAuthorityHosts.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzurePowerShellCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/OnBehalfOfCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/RegionalAuthority.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/intellij/IntelliJCryptoUtil.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/VirtualMachineMsiCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/package-info.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AuthenticationRequiredException.java
*
/azure-identity-1-13-2-sources-1-jar/com/azure/identity/AuthorizationCodeCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/DeviceCodeInfo.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureApplicationCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AuthenticationRecord.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AksExchangeTokenCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/DeviceCodeCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/LoggingUtil.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/UsernamePasswordCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ArcIdentityCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ClientAssertionCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IdentityLogOptionsImpl.java
*
/azure-identity-1-13-2-sources-1-jar/com/azure/identity/ChainedTokenCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/InteractiveBrowserCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/WindowsCredentialAccessor.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/WorkloadIdentityCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/DefaultAzureCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzurePipelinesCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/VisualStudioCodeCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/DeviceCodeCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureDeveloperCliCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/IdentityUtil.java
*

/azure-identity-1-13-2-sources-1-jar/com/azure/identity/ManagedIdentityCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/util/ScopeUtil.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/BrowserCustomizationOptions.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/VisualStudioCodeCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/SharedTokenCacheCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/IntelliJAuthMethodDetails.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/ManagedIdentityType.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/PersistentTokenCacheImpl.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ClientSecretCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/WorkloadIdentityCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/intellij/IntelliJKdbxDatabase.java
*
/azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzureCliCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/module-info.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ClientSecretCredential.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/MSIToken.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/LinuxKeyRingAccessor.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/models/AzureCliToken.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/AzurePowerShellCredentialBuilder.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/SynchronousAccessor.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/CredentialUnavailableException.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/implementation/VisualStudioCacheAccessor.java
* /azure-identity-1-13-2-sources-1-jar/com/azure/identity/ClientAssertionCredential.java
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1.537 opentelemetry-api 1.38.0

1.537.1 Available under license :

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1.538 grizzly-http-servlet 4.0.2

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* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/FilterRegistration.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/FilterChainInvoker.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/FilterChainImpl.java
*
/grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/DefaultServlet.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/ExpectationHandler.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/ServletRegistration.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/Registration.java
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* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/HttpServletRequestImpl.java
*
/grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/HttpServletResponseImpl.java
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* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/DispatchedHttpServletRequest.java
*
 /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/ServletInputStreamImpl.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/DispatcherConstants.java
* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/FilterConfigImpl.java
* /grizzly-http-servlet-4-0-2-sources-jar/module-info.java
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* /grizzly-http-servlet-4-0-2-sources-jar/org/glassfish/grizzly/servlet/ServletReaderImpl.java
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1.539 simpleclient-common 0.16.0

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Manifest-Version: 1.0
Bnd-LastModified: 1655327905690
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli
ent.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheu
s.client";version="0.16.0"
Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.cl
ient.exemplars;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

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1.540 apm-es-restclient-plugin-8_x 1.52.2

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1.541 bcel 6.7.0

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1.542 hk2-utils 3.1.1

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1.545 xz-java 1.10

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1.546 apm-profiling-plugin 1.52.2

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*
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* Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
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* exceptions there is no value in catching.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
*
 /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlQuery.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
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 /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/BadSqlGrammarException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ResultSetExtractor.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java
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jar/org/springframework/jdbc/support/incrementer/MariaDBSequenceMaxValueIncrementer.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/SqlFunction.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson

```
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
  * Create a Map of input parameters, keyed by name.
  * @param con a JDBC connection. This is useful (and the purpose of this interface)
  * if we need to do something RDBMS-specific with a proprietary Connection
  * implementation class. This class conceals such proprietary details. However,
  * it is best to avoid using such proprietary RDBMS features if possible.
  * @return a Map of input parameters, keyed by name (never {@code null})
  * @throws SQLException if an SQLException is encountered setting
  * parameter values (that is, there's no need to catch SQLException)
  */
```

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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/StoredProcedure.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/RdbmsOperation.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLErrorCodesFactory.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/JdbcUtils.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryRuntimeHints.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/SqlCharacterValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java

* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p><b>NOTE</b>: Needs to be invoked after the involved
 PreparedStatements have
  * been executed or the affected O/R mapping sessions have been flushed.
  * Otherwise, the database resources for the temporary BLOBs might stay allocated.
```

*/

Found in path(s):
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/JdbcAccessor.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/MySQLIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ShardingKeyDataSourceAdapter.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SqlArrayValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SqlValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/DataClassRowMapper.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java

* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/JdbcClient.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ShardingKeyProvider.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/SimplePropertySqlParameterSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowCallbackHandler.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/SQLWarningException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/DefaultJdbcClient.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/RowMapper.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
*
 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SimplePropertyRowMapper.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
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 /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/CustomSQLErrorCodesTranslation.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
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```

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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/lob/LobHandler.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
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*/
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or
 wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
*

/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
* /spring-jdbc-6-1-19-sources-
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
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* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlProvider.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java
*
/spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/support/KeyHolder.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-6-1-19-sources-jar/org/springframework/jdbc/core/SqlParameter.java
* /spring-jdbc-6-1-19-sources-

jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
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1.551 feign-slf4j 13.2.1

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```
Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin 5.1.9
Build-Jdk-Spec: 21
Bnd-LastModified: 1707288166853
Bundle-Description: Feign SLF4J
Bundle-DocURL: https://github.com/openfeign
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Feign SLF4J
Bundle-SymbolicName: io.github.openfeign.feign-slf4j
Bundle-Vendor: OpenFeign
Bundle-Version: 13.2.1
Export-Package: feign.slf4j;uses:="feign,org.slf4j";version="13.2.1"
Import-Package: feign;version="[13.2,14)",org.slf4j;version="[2.0,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
```

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* /feign-slf4j-13-2-1-jar/META-INF/MANIFEST.MF

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* /feign-slf4j-13-2-1-jar/META-INF/maven/io.github.openfeign/feign-slf4j/pom.xml

1.552 apache-client 2.31.78

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*/
/**
 * Read/write access to the shared second-level cache using
 * soft locks.
 * <p>
 * Indicates a non-vanishing likelihood that two concurrent
 * transactions attempt to update the same item of data
 * simultaneously. This strategy uses "soft" locks to prevent
 * concurrent transactions from retrieving or storing a stale
```

```
 * item from or in the cache during the transaction completion
 * process. A soft lock is simply a marker entry placed in the
 * cache while the updating transaction completes.
 * <ul>
 * <li>A second transaction may not read the item from the
 *     cache while the soft lock is present, and instead
 *     simply proceeds to read the item directly from
the
 *     database, exactly as if a regular cache miss had
 *     occurred.
 * <li>Similarly, the soft lock also prevents this second
 *     transaction from storing a stale item to the cache
 *     when it returns from its round trip to the database
 *     with something that might not quite be the latest
 *     version.
 * </ul>
 * <p>
 * This concurrency strategy is not compatible with
 * serializable transaction isolation.
 *
 * @see AccessType#READ_WRITE
 */
```

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#
org.hibernate.jpa.HibernatePersistenceProvider
```

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*/
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p>
```

* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon
* WAS version
* the WAS container in which Hibernate will be utilized
*
* <p>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin
 King
* @author Jesper Udby
* @author Steve Ebersole
*/

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jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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*/
// public DomainResult createDomainResult(

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java
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*/
/**
 * Used to pass a CDI {@link jakarta.enterprise.inject.spi.BeanManager} to
 * Hibernate.
 * <p>
 * According to the JPA specification, the {@code BeanManager} should be
 * passed at boot time and be ready for immediate use at that time. But
 * not all environments can do this (WildFly, for example). To accommodate
 * such environments, Hibernate provides two options: <ol>
 *     <li> A proprietary CDI extension SPI (which has been proposed to the CDI
 *          spec group as a standard option) which can be used to provide delayed
 *          {@code BeanManager} access: to use this solution, the reference passed
 *          as the {@code BeanManager} during bootstrap should
be typed as
 *          {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *     <li> Delayed access to the {@code BeanManager} reference: here, Hibernate
 *          will not access the reference passed as the {@code BeanManager} during
 *          bootstrap until it is first needed. Note, however, that this has the
 *          effect of delaying the detection of any deployment problems until after
 *          bootstrapping.
 * </ol>
 *
 * This setting is used to configure access to the {@code BeanManager},
 * either directly, or via
 * {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *
 * @see org.hibernate.boot.SessionFactoryBuilder#applyBeanManager(Object)
 */

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```
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
* License: GNU Lesser General Public License (LGPL), version 2.1 or later.
* See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
*/
/**
  * Use the proprietary WITH ROLLUP or WITH CUBE clause.
  */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/GroupBySummarizationRenderingStrategy.java
No license file was found, but licenses were detected in source scan.

```
/*
* Checker Framework utilities
* Copyright 2004-present by the Checker Framework developers
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*/
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Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/NullnessUtil.java
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```
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* See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/
/**
* A hash table supporting full concurrency of retrievals and
* adjustable expected concurrency for updates. This class obeys the
* same functional specification as {@link java.util.Hashtable}, and
* includes versions of methods corresponding to each method of
* {@code Hashtable}. However, even though all operations are
* thread-safe, retrieval operations
 do <em>not</em> entail locking,
* and there is <em>not</em> any support for locking the entire table
* in a way that prevents all access.  This class is fully
* interoperable with {@code Hashtable} in programs that rely on its
* thread safety but not on its synchronization details.
* <p>
* <p> Retrieval operations (including {@code get}) generally do not
* block, so may overlap with update operations (including
* {@code put} and {@code remove}). Retrievals reflect the results
* of the most recently <em>completed</em> update operations holding
* upon their onset.  For aggregate operations such as {@code putAll}
* and {@code clear}, concurrent retrievals may reflect insertion or
* removal of only some entries.  Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point at or since the creation of the iterator/enumeration.
* They do <em>not</em> throw {@link java.util.ConcurrentModificationException}.
* However,
 iterators are designed to be used by only one thread at a time.
* <p>
* <p> The allowed concurrency among update operations is guided by
* the optional {@code concurrencyLevel} constructor argument
* (default {@code 16}), which is used as a hint for internal sizing.  The
* table is internally partitioned to try to permit the indicated
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary.  Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
```

```
* not usually have much noticeable impact. A value of one is
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing this
 or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
* <p>
* <p>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
* <p>
* <p>This class is copied from Infinispan, and was originally written
* by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
* released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain</p>
* <p>
* <p>
* <p> Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> allow {@code null} to be used as a key or value.
*
* @param <K> the type of keys maintained by this map
* @param <V> the type of mapped values
*
* @author Doug Lea
*/
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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```
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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/graph/EntityGraphs.java
No license file was found, but licenses were detected in source scan.

```
/*
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```

*/

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/EmbeddableBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/TableSet.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/ParameterModeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/MergeOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/MultiKeyLoadHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyBinder.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/DiscriminatedAssociation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/MultiKeyLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyContainer.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/sql/results/jdbc/internal/JdbcValuesMappingProducerProviderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/Restriction.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/model/domain/DiscriminatorSqmPath.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/FetchSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/TableContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/MultiTenancySettings.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinatorTablePerSubclass.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableUpdate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/RestrictedTableMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/AbstractMultiIdEntityLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/EntityBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/archive/spi/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/NaturalId.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ValuesAnalysis.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/SchemaAware.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/BaselineSessionEventsListenerBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationGroupSingle.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobTypes.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableDeleteBuilderStandard.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/bytecode/internal/BytecodeEnhancementMetadataNonPojoImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaults.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/TableBinder.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/RemoveCoordinatorTablePerSubclass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/ValidationMode.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/spi/Binder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/RestrictedTableMutationBuilder.java
*

/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/tree/predicate/InArrayPredicate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/ProxoolSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/SoftDeletable.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaultsBasicImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/internal/MappingBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/ValidationSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableDelete.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ForeignKeyType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/IntegrationException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/DeleteCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/metamodel/mapping/internal/DiscriminatorValueDetailsImpl.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/tree/insert/InsertStatement.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/CustomSqlMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/UpdateValuesAnalysis.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/cursor/internal/FallbackRefCursorSupport.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ToOneBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/ResourceStreamLocator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperation.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/UpdateRowsCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreationLogging.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/ResultSetMappingContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/FetchTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/OptionalDeterminationSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/ValuedModelPart.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/SecondaryTableSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmHqlNumericLiteral.java
* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/AbstractDeleteCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/NoBatchKeyAccess.java
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* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnyBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/TypeSafeActivator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/profile/internal/FetchProfileAffectee.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/EntityLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/AbstractRestrictedTableMutation.java
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/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/UpsertOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/AbstractCollectionBatchLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedColumns.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/MutationOperation.java
* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/BatchBuilder.java
* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/AbstractMutationExecutor.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/HibernateTraversableResolver.java
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/hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ToOneFkSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableInsertCustomSql.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/EnumTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/CollectionPropertyHolder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/JdbcUpdateMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyHolder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/spi/MutationExecutorService.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/CacheSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/mutation/internal/cte/CteSoftDeleteHandler.java
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/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/JdbcValueBindingsImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/LifecycleCallbackContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/NamedEntityGraphDefinition.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/IndexedBiConsumer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/JpaComplianceSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/DeleteOrUpsertOperation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/internal/JdbcOperationQueryInsertImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ClassLoaderAccessLazyImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DefaultDiscriminatorConverter.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/internal/AbstractJavaTimeJdbcType.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ColumnsBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/SingleIdExecutionContext.java
* /hibernate-core-6-5-3-final-sources-
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/SetBasicValueTypeSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/BytecodeSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/archive/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/EnvironmentSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/CollectionBinder.java
* /hibernate-core-6-5-3-final-sources-
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*

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/FetchableAttribute.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/UpdateCoordinatorNoOp.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/AttributeAnalysis.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableDeleteBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/MutationExecutorSingleSelfExecuting.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DiscriminatorMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableInsertStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/CannotForceNonNullableException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/spi/AdditionalMappingContributions.java
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/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/MutationExecutorSingleNonBatched.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/HbmTransformationLogging.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/property/access/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/mutation/spi/SqmMultiTableMutationStrategyProvider.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/EntityMutationTarget.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/property/access/internal/AbstractSetterMethodSerialForm.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/spi/BindingGroup.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/internal/DiscriminatorTypeImpl.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableDeleteBuilderSkipped.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/CacheModeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/CompleteRestriction.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyInferredData.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AttributeConverterDefinitionCollector.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/LocalDateJdbcType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/mutation/UpdateRowsCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/TableMutation.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/OneToOneSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/AggregatedIdentifierMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/MapKeyColumnDelegator.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DiscriminatorConverter.java
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnAndFormulaSource.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/mutation/internal/temptable/AbstractDeleteExecutionDelegate.java

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableUpdateCustomSql.java
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/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractRestrictedTableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/internal/stax/LocalXmlResourceResolver.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/QueryBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/EntityBatchLoaderArrayParam.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/BlobAndClobCreator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/FetchOverrideSecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/internal/SetObjectBinder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/SqlAstTranslatorWithUpsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PrimitiveArrayBinder.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/IndexColumn.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/group/PreparedStatementGroup.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/CreateKeySecondPass.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/FlushModeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedJoinColumn.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationOperationGroupStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableInsertBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/internal/MutationStatementPreparerImpl.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/insert/BasicSelectingDelegate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/Nullability.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableInsertBuilderStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/DiscriminatorMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/CollectionBatchLoader.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/ColumnValueBindingBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableDeleteStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/AbstractJdbcMutation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/TableDetails.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ObjectNameSource.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/ResultCheckStyleMarshalling.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/spi/BatchKeyAccess.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/insert/InsertReturningDelegate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/QuerySettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/DeleteCoordinator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/JdbcValueDescriptorImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/jdbc/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/MappingSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/convert/spi/RegisteredConversion.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/TableUpdateNoSet.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/spi/BatchLoader.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/sql/results/jdbc/internal/JdbcValuesMappingProducerProviderInitiator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/exec/internal/AbstractJdbcOperationQueryInsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/TableUpdate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/AttributeMappingsMap.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/ConverterRegistration.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/Batch.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/PreparedStatementGroupNone.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/tree/expression/UnparsedNumericLiteral.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedJoinColumns.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/internal/IdentifierLoadAccessImpl.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinatorNoOp.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/ToOneAttribute.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/internal/SimpleResourceLocator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/LifecycleCallback.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedColumn.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DiscriminatorValueDetails.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/TableInsert.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableMergeBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/registry/classloading/spi/ClassLoaderService.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/InsertCoordinatorStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreationHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ComparisonRestriction.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/JavaTimeJdbcType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/XMLContext.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/TargetColumnAdapter.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/JdbcBatchLogging.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/BinderHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/MutatingTableReference.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/internal/ParameterMarkerStrategyInitiator.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cache/spi/access/AccessType.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/StandardLobCreator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/FetchSecondPass.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/CacheAccessTypeMarshalling.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyHolderBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/AttributeMappingsList.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/AttributesContainer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/IndexOrUniqueKeySecondPass.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/AvailableSettings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/procedure/ParameterTypeException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/JdbcValueBindings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/WrappedInferredData.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/StandardBatchLoaderFactory.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/internal/BaseNaturalIdLoadAccessImpl.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/temptable/SoftDeleteExecutionDelegate.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/MutationOperationGroup.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/SelfExecutingUpdateOperation.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaultsInsertableNonUpdateableImpl.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableMutationBuilder.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationGroupStandard.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ArrayBinder.java
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*/
// It supports a proprietary operator

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/MySQLSqlAstTranslator.java
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*/
//   "5.3 in upgrading. It will be removed in a later version."

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_3_0.xsd
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_3_1.xsd
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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/hibernate-configuration-3.0.dtd
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/hibernate-mapping-3.0.dtd
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*/
/**
 * Subclass used to simply instantiation of singular attributes representing an entity's
 * version.
 */

Found in path(s):
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java

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*/
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```
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*/
/**
  * Does this dialect support the SQL {@code lateral} keyword or a
  * proprietary alternative?
  *
  * @return {@code true} if the underlying database supports lateral,
  * {@code false} otherwise.  The default is {@code false}.
  */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/Dialect.java
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```
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*/
/**
  * In {@linkplain jakarta.persistence.InheritanceType#SINGLE_TABLE single table}
  * inheritance, subclasses share a table with the root class by definition. But
  * for {@linkplain jakarta.persistence.InheritanceType#JOINED joined} or
  * {@linkplain jakarta.persistence.InheritanceType#TABLE_PER_CLASS union} mappings,
  * the subclasses are assumed to occupy distinct tables, and it's an error to map
  * two subclasses to the same table.
  * <p>
  * As a special exception to this, if a joined inheritance hierarchy defines an
  * explicit {@link jakarta.persistence.DiscriminatorColumn}, we tolerate table
  * duplication among the subclasses, but we must "force" the discriminator to

 * account for this. (See issue HHH-14526.)
  */
```

Found in path(s):
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/RootClass.java
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```
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```

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* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/EmbeddableMapping.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tool/schema/internal/exec/GenerationTargetToDatabase.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeSourceArrayImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/boot/spi/PersistenceUnitDescriptor.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/processing/CheckHQL.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/result/ResultSetOutput.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/lock/PessimisticForceIncrementLockingStrategy.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/naming/ImplicitJoinTableNameSource.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/IdentifierAttribute.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/enhanced/PooledOptimizer.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/CalendarDateJavaType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/cache/spi/entry/CollectionCacheEntry.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tool/schema/internal/SchemaTruncatorImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/TimeZoneStorage.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/relational/Exportable.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/event/spi/PostCommitDeleteEventListener.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/SchemaAutoTooling.java
*
 /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/resource/transaction/backend/jta/internal/JtaTransactionCoordinatorImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/registry/classloading/spi/ClassLoadingException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/Table.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/internal/InFlightMetadataCollectorImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/SizeSource.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/DB2StructJdbcType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/CascadeStyleSource.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/resource/transaction/backend/jdbc/internal/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/ShortPrimitiveArrayJavaType.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/bytecode/enhance/spi/EnhancementInfo.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/sequence/H2V2SequenceSupport.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/context/internal/ManagedSessionContext.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/spi/IdentifierSourceSimple.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/id/enhanced/StandardOptimizerDescriptor.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/processing/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/spi/SchemaNameResolver.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/TimestampGenerators.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/JdbcType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/archive/scan/internal/ClassDescriptorImpl.java
*
 /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/JdbcTimeJavaType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/internal/util/CacheModeHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/NamedQuery.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/SharedSessionBuilder.java

* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/sequence/package-info.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/pagination/DerbyLimitHandler.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/JoinFormula.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/HANAColumnStoreDialect.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/spi/JavaTypeRegistry.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/event/spi/HibernateMonitoringEvent.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/pagination/SQLServer2012LimitHandler.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/SerializationHelper.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/property/access/spi/PropertyAccessBuildingException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/collection/BasicCollectionPersister.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/tool/schema/extract/spi/DatabaseInformation.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/PropertiesHelper.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeKeySourceImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/context/package-info.java
* /hibernate-core-6-5-3-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/OrionJtaPlatform.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/criteria/spi/CriteriaBuilderExtension.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/event/spi/PreInsertEvent.java
*
/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/spi/JdbcEnvironment.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/generator/BeforeExecutionGenerator.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/LobTypeMappings.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/java/NClobJavaType.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/context/spi/AbstractCurrentSessionContext.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/Cascade.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/event/spi/DeleteContext.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/bytecode/enhance/internal/bytebuddy/EnhancerImpl.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/exception/ConstraintViolationException.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/action/spi/BeforeTransactionCompletionProcess.java
*
/hibernate-core-6-5-3-final-sources-
jar/org/hibernate/boot/model/naming/ImplicitDiscriminatorColumnNameSource.java
* /hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/spi/TypeSearchability.java
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1.554 classmate 1.1.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.555 lucene-analysis-kuromoji 9.12.2

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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analysis/common/src/resources/org/apache/lucene/analysis/snowball
were
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The full snowball package is available from
https://snowballstem.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

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German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
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==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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 https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (https://github.com/lz4/lz4/tree/dev/lib)

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1.557 metrics 4.1.4

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Bnd-LastModified: 1582817818755
Build-Jdk: 1.8.0_232
Built-By: joschi
Bundle-Description: Metrics is a Java library which gives you unparall
eled insight into what your code does in production. Metrics p
rovides a powerful toolkit of ways to measure the behavior of critica
l components in your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.1.4
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.1.4"
Implementation-Title: Metrics Core
Implementation-URL: https://metrics.dropwizard.io/metrics-core
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.4
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability:
osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /metrics-core-4-1-4-jar/META-INF/MANIFEST.MF

1.558 commons-io 2.5

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1.559 spring-boot-jarmode-tools 3.3.11

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1.560 netty-codec-dns 4.1.126.Final

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec-dns
Built-By: root
Bnd-LastModified: 1756905920755
Specification-Title: Netty/Codec/DNS
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.han
dler.codec;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty
.util.collection;version="[4.1,5)",io.netty.util.internal;version="[4
.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version=
"[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";r
esolution:=optional,org.bouncycastle.jcajce.provider;version="[1.0,2)
";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.handler.codec.dns;uses:="io.netty.buffer,io.n
 etty.channel,io.netty.channel.socket,io.netty.handler.codec,io.netty.
util";version="4.1.126"
Bundle-Name: Netty/Codec/DNS
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Codec/DNS
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.codec.dns
Implementation-Version: 4.1.126.Final

Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-codec-dns/

Found in path(s):
* /netty-codec-dns-4-1-126-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2614416920_1760733805.8271549/0/netty-codec-dns-4-1-126-final-jar/META-INF/maven/io.netty/netty-codec-dns/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*

1.561 log4j-api 2.12.4

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1.564 awsjavasdkec 1.12.261

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1.565 netty-codec-http 4.1.126.Final

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/opt/cola/permits/2614416926_1760733816.3728945/0/netty-codec-http-4-1-126-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2614416926_1760733816.3728945/0/netty-codec-http-4-1-126-final-jar/META-INF/native-image/io.netty/netty-codec-http/native-image.properties# Copyright 2019 The Netty Project
/opt/cola/permits/2614416926_1760733816.3728945/0/netty-codec-http-4-1-126-final-jar/io/netty/handler/codec/http/QueryStringEncoder.class encodeUtf8ComponentSlow

Found in path(s):
*
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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec-http
Built-By: root
Bnd-LastModified: 1756905947559
Specification-Title: Netty/Codec/HTTP
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optiona
l,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1
,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;ver
sion="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.hand
ler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression
;version="[4.1,5)",io.netty.handler.codec.http,io.netty.handler.codec
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codec.http.websocketx.extensions,io.netty.handler.ssl;version="[4.1,5
)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[
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 rnal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5
)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,
2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resol
ution:=optional,org.bouncycastle.jcajce.provider;version="[1.0,2)";re
solution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.

netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.net
ty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.ne
tty.handler.stream,io.netty.util";version="4.1.126",io.netty.handler.
codec.http.cookie;version="4.1.126",io.netty.handler.codec.http.cors;
uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.126
",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.net
ty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.nett
y.handler.stream,io.netty.util";version="4.1.126",io.netty.handler.co
dec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.
handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.
netty.util,io.netty.util.internal.logging";version="4.1.126",io.netty
.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.
netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.code
c.http.websocketx";version="4.1.126",io.netty.handler.codec.http.webs
ocketx.extensions.compression;uses:="io.netty.channel,io.netty.handle
r.codec.http.websocketx.extensions";version="4.1.126",io.netty.handle
r.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler
.codec.http,io.netty.util";version="4.1.126",io.netty.handler.codec.s
pdy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io
.netty.handler.codec.http,io.netty.util";version="4.1.126"
Bundle-Name: Netty/Codec/HTTP
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Codec/HTTP
Bundle-Description:
Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.http
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-codec-http/

Found in path(s):
* /netty-codec-http-4-1-126-final-jar/META-INF/MANIFEST.MF

1.566 simpleclient_tracer_otel 0.16.0

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Found in path(s):
* /simpleclient-tracer-otel-0-16-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel/pom.xml

1.567 http-auth-spi 2.31.78

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1.568 bouncycastle-fips 1.0.2.6

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1.569 lucene-spatial-extras 9.12.2

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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
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analysis/common/src/org/apache/lucene/analysis/en
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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The
German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.571 open-csv 3.7

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1.572 spring-aop 6.1.19

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The initial code for shuffling an array (originally in class
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inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham
(University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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Bundle-SymbolicName: io.netty.codec-socks
Built-By: root
Bnd-LastModified: 1756905980478
Specification-Title: Netty/Codec/Socks
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.hand
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version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",su
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:=optional,org.bouncycastle.jcajce.provider;version="[1.0,2)";resolut
ion:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package:
 io.netty.handler.codec.socks;uses:="io.netty.buffer,io
.netty.channel,io.netty.handler.codec";version="4.1.126",io.netty.han
dler.codec.socksx;uses:="io.netty.buffer,io.netty.channel,io.netty.ha
ndler.codec,io.netty.handler.codec.socksx.v5";version="4.1.126",io.ne
tty.handler.codec.socksx.v4;uses:="io.netty.buffer,io.netty.channel,i
o.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.126
",io.netty.handler.codec.socksx.v5;uses:="io.netty.buffer,io.netty.ch
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4.1.126"
Bundle-Name: Netty/Codec/Socks
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Codec/Socks
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.codec.socks
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion:
 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-codec-socks/

Found in path(s):
* /netty-codec-socks-4-1-126-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2614416962_1760733837.4331388/0/netty-codec-socks-4-1-126-final-jar/META-
INF/maven/io.netty/netty-codec-socks/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*

1.577 junit-jupiter-engine 5.8.2

1.577.1 Available under license :

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1.578 jackson-dataformat-yaml 2.19.2

1.578.1 Available under license :

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1.579 azure-storage-common 12.26.1

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/**
 * @return The storage services being accessed (only for Account SAS). Please refer to {@link AccountSasService} for
 * more details.
 * @deprecated Please use {@link AccountSasSignatureValues}
 */

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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/implementation/connectionstring/StorageConnectionString.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/implementation/Constants.java
* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/implementation/BuilderUtils.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/policy/package-info.java
* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/sas/BaseSasQueryParameters.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/Utility.java
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info.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/sas/package-info.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/policy/StorageSharedKeyCredentialPolicy.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/policy/ServiceTimeoutPolicy.java
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* /azure-storage-common-12-26-1-sources-jar/com/azure/storage/common/ProgressReceiver.java

1.580 aws-java-sdk-s3 1.12.261

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1.581 apm-apache-httpclient-common 1.52.2

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1.582 metrics-httpasyncclient 4.2.16

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.httpasyncclient
Build-Jdk-Spec: 11
Bundle-Description: An Apache HttpAsyncClient wrapper providing Metric
s instrumentation of connection pools, request durations and r
ates, and other useful information.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Apache HttpAsyncClient
Bundle-SymbolicName: io.dropwizard.metrics.httpasyncclient
Bundle-Version: 4.2.16
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.httpasyncclient;uses:="com.codaha
le.metrics,com.codahale.metrics.httpclient,org.apache.http.config,org

.apache.http.conn,org.apache.http.impl.nio.client,org.apache.http.imp
l.nio.conn,org.apache.http.nio.conn,org.apache.http.nio.reactor";vers
ion="4.2.16"
Implementation-Title: Metrics Integration for Apache HttpAsyncClient
Implementation-Version:
4.2.16
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.me
trics.httpclient;version="[4.2,5)",org.apache.http,org.apache.http.co
ncurrent,org.apache.http.config,org.apache.http.conn,org.apache.http.
impl.nio.client,org.apache.http.impl.nio.conn,org.apache.http.nio.con
n,org.apache.http.nio.protocol,org.apache.http.nio.reactor,org.apache
.http.pool,org.apache.http.protocol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-httpasyncclient-4-2-16-jar/META-INF/MANIFEST.MF

1.583 concurrentlinkedhashmap-lru 1.4.2

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* /concurrentlinkedhashmap-lru-1-4-2-sources-jar/com/googlecode/concurrentlinkedhashmap/LinkedDeque.java
* /concurrentlinkedhashmap-lru-1-4-2-sources-jar/com/googlecode/concurrentlinkedhashmap/package-info.java
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* /concurrentlinkedhashmap-lru-1-4-2-sources-jar/com/googlecode/concurrentlinkedhashmap/EvictionListener.java
* /concurrentlinkedhashmap-lru-1-4-2-sources-jar/com/googlecode/concurrentlinkedhashmap/Weighers.java
* /concurrentlinkedhashmap-lru-1-4-2-sources-

jar/com/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
*
/concurrentlinkedhashmap-lru-1-4-2-sources-jar/com/googlecode/concurrentlinkedhashmap/Weigher.java

1.584 apm-spring-webmvc-spring5 1.52.2

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1.585 asm-tree 9.8

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1.588 spring-expression 6.1.19

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* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/TypedValue.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/MethodExecutor.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/SpelMessage.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/InlineMap.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/ConstructorExecutor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/TypeReference.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/standard/Tokenizer.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/Expression.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Assign.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/common/CompositeStringExpression.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/BeanResolver.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/InlineList.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/OperatorOverloader.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpDec.java

* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/ConstructorResolver.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/MethodReference.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/ConstructorReference.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/ParserContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Selection.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/CodeFlow.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpInc.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/MethodResolver.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/standard/Token.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/VariableReference.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/common/LiteralExpression.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/TypeCode.java
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* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/CompiledExpression.java
*
/spring-expression-6-1-19-sources-jar/org/springframework/expression/AccessException.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/standard/SpelExpression.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/StringLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpDivide.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Ternary.java
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* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Elvis.java
*
/spring-expression-6-1-19-sources-jar/org/springframework/expression/TypeLocator.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpMinus.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpPlus.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ExpressionState.java
* /spring-expression-6-1-19-sources-
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
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jar/org/springframework/expression/spel/support/StandardTypeComparator.java
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jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Literal.java
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* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/ValueRef.java
*
/spring-expression-6-1-19-sources-jar/org/springframework/expression/PropertyAccessor.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorNot.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpAnd.java

* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/IntLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpEQ.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/RealLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/FloatLiteral.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpOr.java
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* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/Operator.java
*
 /spring-expression-6-1-19-sources-jar/org/springframework/expression/TypeComparator.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpLE.java

* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpGT.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/BeanReference.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OperatorPower.java
* /spring-expression-6-1-19-sources-jar/org/springframework/expression/spel/ast/OpGE.java
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1.589 netty-codec 4.1.126.Final

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/opt/cola/permits/2614416846_1760733786.6987994/0/netty-codec-4-1-126-final-jar/META-INF/maven/io.netty/netty-codec/pom.xml<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2614416846_1760733786.6987994/0/netty-codec-4-1-126-final-jar/META-INF/native-image/io.netty/netty-codec/native-image.properties# Copyright 2022 The Netty Project

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Built-By: root
Bnd-LastModified: 1756905915132
Specification-Title: Netty/Codec
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: com.aayushatharva.brotli4j;resolution:=optional,com.aa
yushatharva.brotli4j.decoder;resolution:=optional,com.aayushatharva.b
rotli4j.encoder;resolution:=optional,com.github.luben.zstd;version="[
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,2)";resolution:=optional,com.google.protobuf;version="[2.6,3)";resol
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aft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)";re
solution:=optional,com.ning.compress.lzf;version="[1.0,2)";resolution
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n="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)"

;resolution:=optional,org.bouncycastle.jcajce.provider;version="[1.0,
2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Export-Package: io.netty.handler.codec;uses:="io.netty.buffer,io.netty
.channel,io.netty.channel.socket,io.netty.util";version="4.1.126",io.
netty.handler.codec.base64;uses:="io.netty.buffer,io.netty.channel,io
.netty.handler.codec";version="4.1.126",io.netty.handler.codec.bytes;
 uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";versi
on="4.1.126",io.netty.handler.codec.compression;uses:="com.aayushatha
rva.brotli4j.encoder,io.netty.buffer,io.netty.channel,io.netty.handle
r.codec,net.jpountz.lz4";version="4.1.126",io.netty.handler.codec.jso
n;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";ver
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fer,io.netty.channel,io.netty.handler.codec,org.jboss.marshalling";ve
rsion="4.1.126",io.netty.handler.codec.protobuf;uses:="com.google.pro
tobuf,com.google.protobuf.nano,io.netty.buffer,io.netty.channel,io.ne
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r,io.netty.channel,io.netty.handler.codec";version="4.1.126",io.netty
.handler.codec.xml;uses:="io.netty.buffer,io.netty.channel,io.netty.h
 andler.codec";version="4.1.126"
Bundle-Name: Netty/Codec
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.codec
Implementation-Version: 4.1.126.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.126.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_462
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-codec/

Found in path(s):
* /netty-codec-4-1-126-final-jar/META-INF/MANIFEST.MF

1.590 apm-es-restclient-plugin-common 1.52.2

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Component        Location              License
-----------------------------------------------------------------
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Ext headers       GL/glext.h            Khronos
                  GL/glxext.h           Khronos
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                  KHR/khrplatform.h     Khronos

*****************************************************************************
```

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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tree/README

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1.600 spring-boot 3.3.11

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1.602 asm 8.0.1

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/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/AnnotationWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Attribute.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ByteVector.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ClassReader.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ClassTooLargeException.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ClassVisitor.java//
ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ClassWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ConstantDynamic.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Constants.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Context.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/CurrentFrame.java// ASM: a very small and fast Java bytecode manipulation
framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Edge.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/FieldVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/FieldWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Frame.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Handle.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Handler.java// ASM: a very
small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Label.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/MethodTooLargeException.java// ASM: a very small and fast Java bytecode manipulation

framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/MethodVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/MethodWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ModuleVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ModuleWriter.java//
ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Opcodes.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/RecordComponentVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/RecordComponentWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Symbol.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/SymbolTable.java// ASM: a very small and fast Java bytecode manipulation
framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Type.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/TypePath.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/TypeReference.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/package.html<!DOCTYPE html>
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/SignatureReader.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/SignatureVisitor.java// ASM: a very small and fast Java
bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/SignatureWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/package.html<!DOCTYPE html>

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// ASM: a very small and fast Java bytecode manipulation framework

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* /asm-8-0-1-sources-15-jar/org/objectweb/asm/AnnotationVisitor.java

1.603 high-scale-lib 1.1.4

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1.604 gax-httpjson 0.105.1

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* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/PollingRequestFactory.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/longrunning/stub/OperationsStub.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/longrunning/stub/OperationsStubSettings.java
*
 /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/longrunning/OperationsClient.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/longrunning/OperationsSettings.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonOperationSnapshotCallable.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonLongRunningClient.java
* /gax-httpjson-0-105-1-sources-1-
jar/com/google/api/gax/httpjson/longrunning/stub/HttpJsonOperationsCallableFactory.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/OperationSnapshotFactory.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/longrunning/stub/HttpJsonOperationsStub.java
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* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonHeaderEnhancer.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/GaxHttpJsonProperties.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpRequestFormatter.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonHeaderEnhancers.java
*
 /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ManagedHttpJsonChannel.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonCallSettings.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ApiMethodDescriptor.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/InstantiatingHttpJsonChannelProvider.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonDirectCallable.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonCallOptions.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonExceptionCallable.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonCallContext.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonCallableFactory.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpRequestRunnable.java
*
 /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonStatusCode.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpHeadersUtils.java

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* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/RestSerializationException.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ProtoMessageRequestFormatter.java
*
 /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ProtoMessageResponseParser.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ProtoRestSerializer.java
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* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonExceptionServerStreamingCallable.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonApiExceptionFactory.java
*
 /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ProtoMessageJsonStreamIterator.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonMetadata.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonStatusRuntimeException.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ForwardingHttpJsonClientCallListener.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ManagedHttpJsonInterceptorChannel.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/ForwardingHttpJsonClientCall.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonClientInterceptor.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonClientCalls.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonDirectStreamController.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonExceptionResponseObserver.java
*
 /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonClientCall.java
* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpJsonDirectServerStreamingCallable.java
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* /gax-httpjson-0-105-1-sources-1-jar/com/google/api/gax/httpjson/HttpResponseParser.java

1.605 java-support 8.4.0

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in path(s):
* }
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/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/package-info.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.net.impl;
No license file was found, but licenses were detected in source scan.

Found in path(s):
* package net.shibboleth.utilities.java.support.xml;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/security/package-info.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.security.impl;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/security/AccessControl.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.scripting;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/component/AbstractIdentifiableInitializableComponent.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.collection;

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/logic/AbstractTriStatePredicate.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.httpclient;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/scripting/AbstractScriptEvaluator.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.resource;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/collection/ClassIndexedSet.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.codec;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/annotation/package-info.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.annotation.constraint;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/service/AbstractReloadableService.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.security;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/ContextHandlingHttpClient.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.component;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/primitive/CleanerSupport.java/*

Found in path(s):

* package net.shibboleth.utilities.java.support.net;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/resolver/ClassCriterion.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.primitive;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/annotation/Prototype.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/annotation/constraint/Live.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/codec/DecodingException.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/codec/EncodingException.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/codec/HTMLEncoder.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/codec/StringDigester.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/collection/IndexingObjectStore.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/component/AbstractIdentifiedInitializableComponent.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/component/IdentifiedComponent.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/FileCachingHttpClientBuilder.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/TLSSocketFactoryBuilder.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/package-info.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/logic/ConstraintViolationException.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/HttpServletSupport.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/RequestResponseContextFilter.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/SameSiteCookieHeaderFilter.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/ThreadLocalHttpServletRequestSupplier.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/ThreadLocalHttpServletResponseProxy.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/ThreadLocalHttpServletResponseSupplier.java/*

/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/URIComparator.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/URIException.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/URISupport.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/impl/ThreadLocalHttpServletResponseProxy.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/net/impl/package-info.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/primitive/DeprecationSupport.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/primitive/TimerSupport.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/primitive/package-info.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/resolver/CriterionPredicateRegistry.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/resolver/Resolver.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/scripting/ScriptedRunnable.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/scripting/package-info.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/security/impl/IPRangeAccessControl.java/*
/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/security/impl/Type4UUIDIdentifierGenerationStrategy.java/*

Found
in path(s):
*
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/opt/cola/permits/2621148839_1760353593.414861/0/java-support-8-4-0-sources-jar/net/shibboleth/utilities/java/support/xml/AttributeSupport.java/*

Found in path(s):
* package net.shibboleth.utilities.java.support.velocity;

1.606 weak-lock-free 0.18

1.606.1 Available under license :

No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /weak-lock-free-0-18-sources-jar/META-INF/maven/com.blogspot.mydailyjava/weak-lock-free/pom.xml

1.607 opensaml-storage-api 4.3.0

1.607.1 Available under license :

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```
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```

Found in path(s):
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/annotation/AnnotationSupport.java
*
 /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/StorageCapabilitiesEx.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/annotation/Context.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/AbstractStorageService.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/package-info.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/annotation/Expiration.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/MutableStorageRecord.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/StorageRecord.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/StorageSerializer.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/ReplayCache.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/VersionMismatchException.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/annotation/package-info.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/AbstractMapBackedStorageService.java
*
 /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/RevocationCache.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/StorageCapabilities.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/StorageService.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/annotation/Key.java
* /opensaml-storage-api-4-3-0-sources-jar/org/opensaml/storage/annotation/Value.java

1.608 google-http-client-jackson2 1.42.3

1.608.1 Available under license :

Apache-2.0

1.609 opensaml-soap-impl 4.3.0

1.609.1 Available under license :

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*/

Found in path(s):
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestSecurityTokenCollectionImpl.java
*
 /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/CreatedBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/CancelTargetUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/PrimaryMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestKETImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/AddressImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/LifetimeUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/EmbeddedImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/BinaryExchangeUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/decoder/http/impl/HTTPSOAP11Decoder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/RetryAfterUnmarshaller.java
*
 /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/EntropyMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/StatusUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/EntropyBuilder.java

* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ClaimsBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestTypeUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ParticipantsMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/KeyExchangeTokenMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/TokenTypeBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestedSecurityTokenMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsfed/impl/AddressBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RenewTargetImpl.java
*
 /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestSecurityTokenMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestKETUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wstrust/impl/AbstractWSTrustObjectUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/EncryptWithBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RenewingImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/TransformationParametersBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ClaimsImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/ReferenceParametersImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/AbstractWSSecurityObject.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/RetryAfterMarshaller.java
*
 /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wsaddressing/impl/EndpointReferenceUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wsaddressing/impl/EndpointReferenceTypeMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/ReferenceBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/ProblemIRIMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/FaultStringBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ComputedKeyAlgorithmBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RenewTargetMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/SecurityBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsfed/impl/AppliesToUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/package-info.java
*
 /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/client/soap11/encoder/http/impl/package-info.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/AttributedURIUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/CombinedHashImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/PasswordImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/IssuerMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wssecurity/impl/SignatureConfirmationUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/DelegateToMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ParticipantsBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/IssuedTokensBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestedProofTokenBuilder.java
*
 /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/KeyWrapAlgorithmImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/DetailBuilder.java

* /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wsaddressing/messaging/impl/ValidateActionHandler.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/DetailImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/RelatesToImpl.java
* /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wssecurity/impl/TransformationParametersUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wspolicy/impl/AbstractWSPolicyObject.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/IssuerBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/profile/impl/AddSOAPFault.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/SignatureAlgorithmBuilder.java
*
/opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestTypeImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wspolicy/impl/AllUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/AttributedURIImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/SignChallengeBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/TimestampBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ComputedKeyAlgorithmMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/SignChallengeTypeMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/SecurityUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/KeyTypeBuilder.java
* /opensaml-soap-impl-4-3-0-sources-
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*
/opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/BinaryExchangeBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/EncryptionAlgorithmBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ProofEncryptionImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/SaltBuilder.java
* /opensaml-soap-impl-4-3-0-sources-
jar/org/opensaml/soap/wssecurity/messaging/impl/AddTimestampHandler.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/AddressUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/SecurityTokenReferenceImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/DelegatableMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsfed/impl/RequestedSecurityTokenMarshaller.java
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/opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestedProofTokenImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ParticipantTypeMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/DelegatableBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/IterationImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/KeyIdentifierBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/FaultCodeBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/FaultUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/MetadataBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wspolicy/impl/OperatorContentTypeUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/AuthenticatorImpl.java
*
/opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wspolicy/impl/PolicyReferenceMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/package-info.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/AllowPostdatingImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ParticipantTypeImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wspolicy/impl/PolicyMarshaller.java

* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/RequestedReferenceTypeMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/CanonicalizationAlgorithmImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/SecurityTokenReferenceMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/UseKeyBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/CreatedUnmarshaller.java
*
/opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/TimestampImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/AbstractWSSecurityObjectUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ClaimsMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/ParticipantsImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/SaltUnmarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/impl/BodyMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wspolicy/impl/ExactlyOneImpl.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wssecurity/impl/AbstractWSSecurityObjectMarshaller.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wstrust/impl/SignWithBuilder.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/impl/ProblemIRIUnmarshaller.java
*
/opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/soap11/encoder/http/impl/package-info.java
* /opensaml-soap-impl-4-3-0-sources-jar/org/opensaml/soap/wsfed/impl/RequestSecurityTokenResponseImpl.java

1.610 jansi 2.4.0

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/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/Ansi.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/AnsiColors.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/AnsiConsole.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/AnsiMain.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/AnsiMode.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/AnsiPrintStream.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/AnsiRenderer.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/WindowsSupport.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/internal/CLibrary.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/internal/JansiLoader.java/*----------

/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/internal/Kernel32.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/internal/OSInfo.java/*----------
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/io/AnsiOutputStream.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/io/AnsiProcessor.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/io/Colors.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/io/ColorsAnsiProcessor.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/io/FastBufferedOutputStream.java/*
/opt/cola/permits/2825020838_1767959261.1681395/0/jansi-2-4-0-sources-6-jar/org/fusesource/jansi/io/WindowsAnsiProcessor.java/*

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<?xml version="1.0" encoding="UTF-8"?>

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* /jansi-2-4-0-sources-6-jar/META-INF/maven/org.fusesource.jansi/jansi/pom.xml

1.611 unboundid-ldap-sdk 6.0.3

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/**
* This class provides a mechanism for extracting the effective rights
* information from an entry returned for a search request that included the
* get effective rights request control.  In particular, it provides the ability
* to parse the values of the aclRights attributes in order to determine what
* rights the specified user may have when interacting with the entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* See the {@link GetEffectiveRightsRequestControl} for an example that
```

```
* demonstrates the use of the get effective rights request control and this
* entry.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/EffectiveRightsEntry.java
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*/
/**
* This class defines a Directory Server task that can be used to cause the
* server to enter lockdown mode, in which case it will only allow requests
* from users with the lockdown-mode privilege.  Lockdown mode is intended to
```

```
* allow administrators to perform operations with the server online but without
* worrying about the impact that those operations may have on other users.  In
* In some special cases, the server may place itself in lockdown mode as a
* defense mechanism rather than risking the exposure
 of sensitive information.
* For example, if the server detects any malformed access control rules at
* startup, then it will place itself in lockdown mode rather than attempt to
* run without that rule in effect since it could have been intended to prevent
* unauthorized users from accessing certain data.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The enter lockdown mode task does not have any task-specific properties.  See
* the {@link LeaveLockdownModeTask} class for the corresponding mechanism
 to
* bring the server out of lockdown mode.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/EnterLockdownModeTask.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-ldap.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-jsonfilter.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-listener.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-monitor.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-schema.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-persist.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-cert.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-protocol.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-interceptor.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-ssl.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-ldif.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-unboundid-extop.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-log.properties
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-unboundid-controls.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-task.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-util.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-controls.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-experimental.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-asn1.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-json.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-args.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-tools.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-unboundidds.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-matchingrules.properties
* /unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-transformations.properties
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/unboundid-ldapsdk-extop.properties
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/**
* This class provides an API that may be implemented by classes that format
* and output the results for LDAP-related tools.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a collect support data log capture window implementation
* that indicates that the tool should capture information for a specified
* window of time (between start and end times, inclusive) when processing a
* {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*
* @see  CollectSupportDataExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/TimeWindowCollectSupportDataLogCaptureWindow.java
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*/
/**
* This class provides a mechanism for reading messages from a Directory Server
* error log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify DN
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class represents a data structure that contains information that should
* be used when logging launch and completion messages for a tool invocation.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications
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*   considered stable or mature enough to be guaranteed to work in an
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolInvocationLogDetails.java
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*/
/**
* This class provides a tool that can be used to perform a variety of account
* management functions against user entries in the Ping Identity, UnboundID,
* or Nokia/Alcatel-Lucent 8661 Directory Server.  It primarily uses the
* password policy state extended operation for its processing.
* <BR>
* <BLOCKQUOTE>
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccount.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an add
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-

jar/com/unboundid/ldap/sdk/unboundidds/logs/AddRequestAccessLogMessage.java
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*/
/**
* This class provides an implementation of an X.509 trust manager that can be
* used to trust certificates listed in the topology registry of a Ping Identity
* Directory Server instance.  It will read the topology registry from the
* server's configuration file rather than communicating with it over LDAP, so
* it is only available for use when run from LDAP tools provided with the
* Ping Identity Directory Server.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/TopologyRegistryTrustManager.java
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*/
/**
* This enum defines the set of allowed accessibility states that may be used
* with the {@link SetSubtreeAccessibilityExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/SubtreeAccessibilityState.java
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*/
/**
* This class provides a response control that may be used to provide
* information about the number of entries that match a given set of search
* criteria.  The control will be included in the search result done message
* for any successful search operation in which the request contained a matching
* entry count request control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The matching entry count response control has an OID of
* "1.3.6.1.4.1.30221.2.5.37", a criticality of false, and a value with the
* following encoding:
* <PRE>
*   MatchingEntryCountResponse ::= SEQUENCE {
*       entryCount              CHOICE {
*           examinedCount           [0] INTEGER,
*           unexaminedCount         [1] INTEGER,
*           upperBound              [2] INTEGER,
*           unknown                 [3] NULL,
*           ... }
*       debugInfo               [0] SEQUENCE OF OCTET STRING OPTIONAL,
*       searchIndexed           [1] BOOLEAN DEFAULT TRUE,
*       shortCircuited
         [2] BOOLEAN OPTIONAL,
*       fullyIndexed            [3] BOOLEAN OPTIONAL,
*       candidatesAreInScope    [4] BOOLEAN OPTIONAL,
*       remainingFilter         [5] Filter OPTIONAL,
```

```
*       ... }
* </PRE>
*
* @see  MatchingEntryCountRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/MatchingEntryCountResponseControl.java
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*/
/**
```

* This class provides a utility that can log information about the launch and
* completion of a tool invocation.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolInvocationLogger.java
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/**
* This class implements an extended result that may be returned in response to
* a {@link PurgeRetiredListenerCertificatesExtendedRequest}.  See the
* {@link ReplaceCertificateExtendedResult} class for a description of the
* content for the result.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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/**
* This class provides a request control that may be included in an add, modify,
* or modify DN request to ensure that the contents of that request will not
* result in a uniqueness conflict with any other entry in the server.  Each
* instance of this control should define exactly one uniqueness constraint for
* the associated operation.  Multiple instances of this control can be included
* in the same request to define multiple independent uniqueness constraints
* that must all be satisfied.  If any of
 the uniqueness constraints is not
* satisfied, then the corresponding LDAP result should have a result code of
* {@link ResultCode#ASSERTION_FAILED} and a {@link UniquenessResponseControl}
* for each uniqueness constraint that was not satisfied.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* The request properties must contain either one or more attribute types, a
* filter, or both.  If only a filter is specified, then the server will use
* that filter to identify conflicts (for an add request, any matches
 at all
* will be considered a conflict; for a modify or modify DN request, any matches
* with any entry other than the one being updated will be considered a
* conflict).  If a single attribute type is specified with no filter, then any
```

* change that would result in multiple entries having the same value for that
* attribute will be considered a conflict. If multiple attribute types are
* specified, then the multiple attribute behavior will be used to determine how
* to identify conflicts, as documented in the
* {@link UniquenessMultipleAttributeBehavior} enum. If both a set of attribute
* types and a filter are provided, then only entries matching both sets of
* criteria will be considered a conflict.
*

* The server can perform two different searches in an attempt to identify
* conflicts. In the pre-commit phase, it will attempt to identify any
* conflicts that already exist, and will reject the associated change if there
* are any. In the post-commit
 phase, it can see if there were any conflicts
* introduced by the change itself or by another change happening at the same
* time. If a conflict is detected in the post-commit phase, then the server
* won't have prevented it, but at least the control can be used to provide
* notification about it. The server may also raise an administrative alert to
* notify administrators about the conflict.
*

* Although post-commit validation on its own should be able to detect conflicts
* that arise as a result of concurrent changes in other instances, it is also
* possible to take additional measures to help prevent conflicts from arising
* in the first place. The control may indicate that the server should create
* a temporary conflict prevention details entry before beginning pre-commit
* validation processing. This entry may be found during pre-commit validation
* performed for any conflicting concurrent updates so that the conflicting
* operation is rejected. This temporary
 entry will be automatically removed
* after uniqueness processing has completed, regardless of its success or
* failure.
*

* This request control may be sent either directly to a Directory Server
* instance, or it may be sent to a Directory Proxy Server with or without entry
* balancing. If the request is sent directly to a Directory Server, then only
* that one server will be checked for uniqueness conflicts, and it is possible
* that concurrent conflicts may be introduced on other servers that have not
* yet been replicated by the time control processing has completed. If the
* request is sent to a Directory Proxy Server instance, then search may be
* processed in one or more backend servers based on the pre-commit and
* post-commit validation levels, and at the most paranoid levels, it is highly
* unlikely that any conflicts will go unnoticed.
*

* The request control has an OID of 1.3.6.1.4.1.30221.2.5.52, a criticality of
* either {@code
 true} or {@code false}, and a value with the following
* encoding:
* <PRE>
*   UniquenessRequestValue ::= SEQUENCE {

```
*    uniquenessID                        [0] OCTET STRING,
*    attributeTypes                      [1] SET OF OCTET STRING OPTIONAL,
*    multipleAttributeBehavior           [2] ENUMERATED {
*      uniqueWithinEachAttribute             (0),
*      uniqueAcrossAllAttributesIncludingInSameEntry  (1),
*      uniqueAcrossAllAttributesExceptInSameEntry     (2),
*      uniqueInCombination                   (3),
*      ... } DEFAULT uniqueWithinEachAttribute,
*    baseDN                              [3] LDAPDN OPTIONAL,
*    filter                              [4] Filter OPTIONAL,
*    preventConflictsWithSoftDeletedEntries  [5] BOOLEAN DEFAULT FALSE,
*    preCommitValidationLevel            [6] ENUMERATED {
*      none                  (0),
*      allSubtreeViews       (1),
*      allBackendSets
           (2),
*      allAvailableBackendServers  (3),
*      ... } DEFAULT allSubtreeViews,
*    postCommitValidationLevel           [7] ENUMERATED {
*      none                  (0),
*      allSubtreeViews       (1),
*      allBackendSets        (2),
*      allAvailableBackendServers  (3),
*      ... } DEFAULT allSubtreeViews,
*    alertOnPostCommitConflictDetection     [8] BOOLEAN DEFAULT TRUE,
*    createConflictPreventionDetailsEntry   [9] BOOLEAN DEFAULT FALSE,
*    ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates how to use the uniqueness request control
* to only process an add operation if it does not result in multiple entries
* that have the same uid value:
* <BR><BR>
* <PRE>
* // Create the properties to build a uniqueness request control that
* // will try to prevent an add operation from creating a new entry
* // that has the same uid as an existing entry in the server.  During
 * // pre-commit processing (which happens before the server actually
* // processes the add), the server will check at least one server in
* // each entry-balancing backend set (or just one server in a
* // non-entry-balanced deployment).  During post-commit processing
* // (which happens if the add succeeds), the server will double-check
* // that no conflicting entry was added on any available server in the
* // topology.  Also ensure that the server will not allow conflicts
* // with soft-deleted entries.
* final UniquenessRequestControlProperties uniquenessProperties =
*      new UniquenessRequestControlProperties("uid");
```

```
* uniquenessProperties.setPreCommitValidationLevel(
*      UniquenessValidationLevel.ALL_BACKEND_SETS);
* uniquenessProperties.setPostCommitValidationLevel(
*      UniquenessValidationLevel.ALL_AVAILABLE_BACKEND_SERVERS);
* uniquenessProperties.setPreventConflictsWithSoftDeletedEntries(true);
*
* // Create the request control.  It will be critical
 so that the
* // server will not attempt to process the add if it can't honor the
* // uniqueness request.
* final boolean isCritical = true;
* final String uniquenessID = "uid-uniqueness";
* final UniquenessRequestControl uniquenessRequestControl =
*      new UniquenessRequestControl(isCritical, uniquenessID,
*           uniquenessProperties);
*
* // Attach the control to an add request.
* addRequest.addControl(uniquenessRequestControl);
*
* // Send the add request to the server and read the result.
* try
* {
*   final LDAPResult addResult = connection.add(addRequest);
*
*   // The add operation succeeded, so the entry should have been
*   // created, but there is still the possibility that a post-commit
*   // conflict was discovered, indicating that another request
*   // processed at about the same time as our add introduced a
*   // conflicting entry.
*   final Map&lt;String,UniquenessResponseControl&gt; uniquenessResponses;
*   try
*   {
*     uniquenessResponses
 = UniquenessResponseControl.get(addResult);
*   }
*   catch (final LDAPException e)
*   {
*     throw new RuntimeException(
*          "The add succeeded, but an error occurred while trying " +
*               "to decode a uniqueness response control in add " +
*               "result " + addResult + ":  " +
*               StaticUtils.getExceptionMessage(e),
*          e);
*   }
*
*   final UniquenessResponseControl uniquenessResponseControl =
*        uniquenessResponses.get(uniquenessID);
*   if ((uniquenessResponseControl != null) &amp;&amp;
```

```
*       uniquenessResponseControl.uniquenessConflictFound())
*   {
*     throw new RuntimeException(
*         "The add succeeded, but a uniqueness conflict was found  " +
*             "Uniqueness validation message:  " +
*             uniquenessResponseControl.getValidationMessage());
*   }
* }
* catch (final LDAPException e)
* {
*   // The add attempt failed.  It might have been because of a
*
 // uniqueness problem, or it could have been for some other reason.
*   // To figure out which it was, look to see if there is an
*   // appropriate uniqueness response control.
*   final Map&lt;String, UniquenessResponseControl&gt; uniquenessResponses;
*   try
*   {
*     uniquenessResponses =
*         UniquenessResponseControl.get(e.toLDAPResult());
*   }
*   catch (final LDAPException e2)
*   {
*     throw new LDAPException(e.getResultCode(),
*         "The add attempt failed with result " + e.toLDAPResult() +
*             ", and an error occurred while trying to decode a " +
*             "uniqueness response control in the result:  " +
*             StaticUtils.getExceptionMessage(e2),
*         e);
*   }
*
*   final UniquenessResponseControl uniquenessResponseControl =
*       uniquenessResponses.get(uniquenessID);
*   if (uniquenessResponseControl == null)
*   {
*     // The add result didn't include a uniqueness response control,
*     // indicating
 that the failure was not because of a uniqueness
*     // conflict.
*     throw e;
*   }
*
*   if (uniquenessResponseControl.uniquenessConflictFound())
*   {
*     // The add failed, and the uniqueness response control indicates
*     // that the failure was because of a uniqueness conflict.
*
*     final UniquenessValidationResult preCommitResult =
```

```
*         uniquenessResponseControl.getPreCommitValidationResult();
*     final UniquenessValidationResult postCommitResult =
*         uniquenessResponseControl.getPreCommitValidationResult();
*     final String validationMessage =
*         uniquenessResponseControl.getValidationMessage();
*
*     throw e;
*   }
*   else
*   {
*     // The add failed, but the uniqueness response control indicates
*     // that the failure was not because of a uniqueness conflict.
*     throw e;
*   }
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/UniquenessRequestControl.java
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*/
/**
* This class provides an {@link LDAPCompare} output handler that will format
* messages in column-separated values (CSV) format.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This enum specifies the modes in which the get password quality requirements
* extended operation may determine the type of password update operation that
* will be performed and the way in which the server should determine which
* password policy to use in order to obtain the password quality requirements.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This class provides a request control that can be used by the client to
* identify the purpose of the associated operation.  It can be used in
* conjunction with any kind of operation, and may be used to provide
* information about the reason for that operation, as well as about the client
* application used to generate the request.  This may be very useful for
* debugging and auditing purposes.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
```

```
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code true} or {@code false}.
* It must have a value with the following encoding:
* <PRE>
*   OperationPurposeRequest ::= SEQUENCE {
*        applicationName     [0] OCTET STRING OPTIONAL,
*        applicationVersion  [1] OCTET STRING OPTIONAL,
*        codeLocation        [2] OCTET STRING OPTIONAL,
*        requestPurpose      [3] OCTET STRING OPTIONAL
*        ... }
* </PRE>
* At least one of the elements in the value sequence must be present.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates
 a sample authentication consisting of a
* search to find a user followed by a bind to verify that user's password.
* Both the search and bind requests will include operation purpose controls
* with information about the reason for the request.  Note that for the sake
* of brevity and clarity, error handling has been omitted from this example.
* <PRE>
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", uidValue),
*      "1.1");
* searchRequest.addControl(new OperationPurposeRequestControl(appName,
*      appVersion, 0,  "Retrieve the entry for a user with a given uid"));
* Entry userEntry = connection.searchForEntry(searchRequest);
*
* SimpleBindRequest bindRequest = new SimpleBindRequest(userEntry.getDN(),
*      password, new OperationPurposeRequestControl(appName, appVersion, 0,
*      "Bind as a user to verify the provided credentials."));
* BindResult bindResult = connection.bind(bindRequest);
 * </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/OperationPurposeRequestControl.java
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*/
/**
* This class provides a helper class that may be used to ensure that all of the
* "out-of-the-box" UnboundID-specific response controls supported by this SDK
* are registered so that they can be properly instantiated when received in a
* response from the directory server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds a set of properties for use
* in conjunction with the {@link UniquenessRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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```

```
*   for proprietary functionality or for external specifications that are
 not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The control must be created with either a set of attribute types or a filter
* (or both).  See the {@link UniquenessRequestControl} class-level
* documentation for details about how the server will behave if either or both
* of these values are provided.
* <BR><BR>
* The following default values will be used for properties that are not
* specified:
* <UL>
*   <LI>
*     An empty set of attribute types.
*   </LI>
*   <LI>
*     A multiple attribute behavior of
*     {@link UniquenessMultipleAttributeBehavior#UNIQUE_WITHIN_EACH_ATTRIBUTE}.
*   </LI>
*   <LI>
*     No base DN.
*   </LI>
*   <LI>
*     No filter.
*   </LI>
*   <LI>
*     The control will not prevent conflicts with soft-deleted entries.
*   </LI>
*   <LI>
*     A pre-commit validation level of
*     {@link UniquenessValidationLevel#ALL_SUBTREE_VIEWS}.
 *   </LI>
*   <LI>
*     A post-commit validation level of
*     {@link UniquenessValidationLevel#ALL_SUBTREE_VIEWS}.
*   </LI>
*   <LI>
*     Do alert on conflicts detected during post-commit validation.
*   </LI>
*   <LI>
*     Do not create a conflict prevention details entry.
*   </LI>
* </UL>
*/
```

Found in path(s):

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*/
/**
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The use of interactive transactions is strongly discouraged
*   because it can create conditions which are prone to deadlocks between
*   operations that may significantly affect performance and will result in the
*   cancellation of one or both operations.  It is strongly recommended that
*   standard LDAP transactions (which may be started using a
*   {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
```

```
*   or a {@link MultiUpdateExtendedRequest}
 be used instead.  Although they
*   cannot include arbitrary read operations, LDAP transactions and
*   multi-update operations may be used in conjunction with the
*   {@link com.unboundid.ldap.sdk.controls.AssertionRequestControl},
*   {@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}, and
*   {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl} to
*   incorporate some read capability into a transaction, and in conjunction
*   with the {@link com.unboundid.ldap.sdk.ModificationType#INCREMENT}
*   modification type to increment integer values without the need to know the
*   precise value before or after the operation (although the pre-read and/or
*   post-read controls may be used to determine that).
* </BLOCKQUOTE>
* This class provides an implementation of the interactive transaction aborted
* extended result, which is used as an unsolicited notification to indicate
* that the server has aborted an interactive transaction without the client's
*
 explicit request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @deprecated  The use of interactive transactions is strongly discouraged
*              because it can create conditions which are prone to deadlocks
*              between operations that may significantly affect performance and
*              will result in the cancellation of one or both operations.
*/
```

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/**
* This class provides an implementation of a control that may be included in a
* search result entry in response to a join request control to provide a set of
* entries related to the search result entry.    See the class-level
* documentation for the {@link JoinRequestControl} class for additional
* information and an example demonstrating its use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The value of the join result control is encoded as follows:
* <PRE>
*   JoinResult ::= SEQUENCE {
```

```
*       COMPONENTS OF LDAPResult,
*       entries     [4] SEQUENCE OF JoinedEntry }
* </PRE>
*/
```

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*/
/**
* This class provides support for reading and decoding the value of the
* {@code ds-pwp-modifiable-state-json} virtual attribute, which may be used to
```

```
* manipulate elements of a user's password policy state.  The value of this
* attribute is a JSON object, and using an LDAP modify operation to replace the
* value with a new JSON object will cause the associated state elements to be
* updated in the user entry.  The
* {@link ModifiablePasswordPolicyStateJSONBuilder} class can be used to
* construct values
 to more easily manipulate that state.  Note that the
* {@link PasswordPolicyStateExtendedRequest} class provides a mechanism for
* manipulating an even broader range of password policy state elements.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see  ModifiablePasswordPolicyStateJSONBuilder
* @see  ModifiablePasswordPolicyStateJSONField
* @see  PasswordPolicyStateJSON
* @see  PasswordPolicyStateExtendedRequest
*/
```

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*/
/**
* This class provides an implementation of an extended request which may be
* used to validate a TOTP password for a user.  Note that this should not be
* used as an alternative to authentication because it does not perform password
* policy processing.  Rather, this extended operation should be used only to
* obtain additional assurance about the identity of a user that has already
* been authenticated through some other means.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The extended request has an OID of 1.3.6.1.4.1.30221.2.6.15 and a value with
* the following encoding:
* <PRE>
*   ValidateTOTPPasswordRequest ::= SEQUENCE {
*       userDN          [0] LDAPDN,
*       totpPassword    [1] OCTET STRING,
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ValidateTOTPPasswordExtendedRequest.java
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*/
/**
* This class provides a data structure that holds information about an audit
* log message that represents a modify operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyAuditLogMessage.java
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*/
/**
* This class provides support for an UnboundID-proprietary SASL mechanism that
* may be used to indicate that a user has attempted authentication, whether
* successfully or not, through some mechanism that is external to the Directory
* Server.  If this mechanism is supported in the server, then attempting to
* authenticate with it will not change the identity of the client connection,
* but will perform additional processing that would normally be completed
* during a more traditional authentication attempt.
 * <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* This SASL bind request has a mechanism of
* "UNBOUNDID-EXTERNALLY-PROCESSED-AUTHENTICATION" and must
* include SASL credentials with the following encoding:
* <PRE>
*   ExternallyProcessedAuthenticationCredentials ::= SEQUENCE {
*       authenticationID                    [0] OCTET STRING,
*       externalMechanismName               [1] OCTET STRING,
*       externalAuthenticationWasSuccessful     [2] BOOLEAN,
*       externalAuthenticationFailureReason
      [3] OCTET STRING OPTIONAL,
*       externalAuthenticationWasPasswordBased  [4] BOOLEAN DEFAULT TRUE,
*       externalAuthenticationWasSecure         [5] BOOLEAN DEFAULT FALSE,
*       endClientIPAddress                  [6] OCTET STRING OPTIONAL,
*       additionalAccessLogProperties           [7] SEQUENCE OF SEQUENCE {
*           propertyName      OCTET STRING,
*           propertyValue     OCTET STRING } OPTIONAL,
*       ... }
* </PRE>
* <BR><BR>
* In the event that the external authentication was considered successful, the
* server will ensure that the target user's account is in a usable state and,
* if not, will return a failure response.  If the external authentication was
* successful and the user's account is usable, then the server will make any
* appropriate password policy state updates (e.g., clearing previous
* authentication failures, updating the user's last login time and IP address,
* etc.) and return
```

a success result.
*

* In the event that the external authentication was not considered successful,
* the server may also make corresponding password policy state updates (e.g.,
* incrementing the number of authentication failures and locking the account if
* appropriate) before returning a failure result.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDExternallyProcessedAuthenticationBindRequest.java
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```
*/
/**
* This class defines a monitor entry that provides access to the Directory
* Server stack trace information.  The information that is available through
* this monitor is roughly the equivalent of what can be accessed using the
* {@link Thread#getAllStackTraces} method.  See the {@link ThreadStackTrace}
* class for more information about what is available in each stack trace.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
* <BR>
* The server should present at most one stack trace monitor entry.  It can be
* retrieved using the {@link MonitorManager#getStackTraceMonitorEntry} method.
* The {@link StackTraceMonitorEntry#getStackTraces} method can be used to
* retrieve the stack traces for each thread.  Alternately, this information may
* be accessed using the generic API (although in this case, only the string
* representations of each stack trace frame are available).  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
 */

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/StackTraceMonitorEntry.java
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/**
* This class provides a request control that can be included in an add request
* to indicate that the server should generate a password for the new account.
* If the add operation is processed successfully, then the generated password
* will be included in the {@link GeneratePasswordResponseControl} in the add
* result.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The OID for this control is 1.3.6.1.4.1.30221.2.5.58, the criticality may be
* either {@code true} or {@code false}, and it does not have a value.
*
* @see  GeneratePasswordResponseControl
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
```

jar/com/unboundid/ldap/sdk/unboundidds/controls/GeneratePasswordRequestControl.java
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/**
* This class provides a data structure for providing information about the data
* presented in an attribute in a Directory Server monitor entry.  It includes
* a human-readable display name, a human-readable description, a class that
* represents the data type for the values, and the set of values.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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```
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a search
* result entry returned to a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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/**
  * The BER type used for the header element that specifies the encoding
  * version.
  */

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a delete
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a tool that can be used to generate a TOTP shared secret
* for a user.  That shared secret may be used to generate TOTP authentication
* codes for the purpose of authenticating with the UNBOUNDID-TOTP SASL
* mechanism, or as a form of step-up authentication for external applications
* using the validate TOTP password extended operation.
* <BR>
* <BLOCKQUOTE>
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/**
* This class provides a thread that can be used to retrieve the DNs to examine
* for a server used in conjunction with the {@link LDAPDiff} tool.  The DNs
* may be obtained from a file, using the
* {@link StreamDirectoryValuesExtendedRequest}, or by performing a search.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds the result of processing an
* entry via the {@link LDAPDiffProcessor} class.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This class provides an implementation of the start administrative session
* extended request, which clients may use to indicate that they are going to
* perform a set of administrative operations in the server.  It may be used
* to identify the client to the server and to indicate whether subsequent
* requests received on the connection should be processed using worker threads
* in a dedicated thread pool (subject to server configuration restrictions).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class,
 and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.13, and it must
* have a value with the following encoding:
* <PRE>
*   StartAdminSessionValue ::= SEQUENCE {
*       clientName              [0] OCTET STRING OPTIONAL,
*       useDedicatedThreadPool     [1] BOOLEAN DEFAULT FALSE,
*       ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process for creating an administrative
* session and using that session to request monitor information using a
* dedicated
 worker thread.
* <PRE>
* // Establish a connection to the server.
* LDAPConnection connection = new LDAPConnection(host, port);
*
* // Use the start administrative session operation to begin an administrative
* // session and request that operations in the session use the dedicated
* // thread pool.
* ExtendedResult extendedResult = connection.processExtendedOperation(
*      new StartAdministrativeSessionExtendedRequest("Test Client", true));
*
* // Authenticate the connection.  It is strongly recommended that the
* // administrative session be created before the connection is authenticated.
* // Attempting to authenticate the connection before creating the
```

```
* // administrative session may result in the bind using a "regular" worker
* // thread rather than an administrative session worker thread, and if all
* // normal worker threads are busy or stuck, then the bind request may be
* // blocked.
* BindResult bindResult = connection.bind(userDN, password);
*
 * // Use the connection to perform operations that may benefit from using an
* // administrative session (e.g., operations that troubleshoot and attempt to
* // correct some problem with the server).  In this example, we'll just
* // request all monitor entries from the server.
* List&lt;MonitorEntry&gt; monitorEntries =
*      MonitorManager.getMonitorEntries(connection);
*
* // Use the end administrative session operation to end the administrative
* // session and resume using normal worker threads for subsequent operations.
* // This isn't strictly needed if we just want to close the connection.
* extendedResult = connection.processExtendedOperation(
*      new EndAdministrativeSessionExtendedRequest());
*
* // Do other operations that don't need an administrative session.
*
* connection.close();
* </PRE>
*
* @see  EndAdministrativeSessionExtendedRequest
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartAdministrativeSessionExtendedRequest.java
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*/
/**
* This class provides a number of utility methods primarily intended for use
* with command-line tools.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class defines a Directory Server task that can be used to populate the
* values of a composed attribute in existing entries without the need to export
* the data to LDIF and re-import it.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The names or DNs of the configuration entries for the composed
*       attribute plugin instances for which to generate values.</LI>
```

```
*   <LI>The backend IDs of the backends in which the values are to be
*       composed.</LI>
*   <LI>The maximum number of entries to update per second.</LI>
* </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/PopulateComposedAttributeValuesTask.java
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*/
/**
```

```
* This class provides an implementation of an extended request that can be used
* to trigger the delivery of a temporary one-time password reset token to a
* specified user.  This token can be provided to the password modify extended
* request in lieu of the current password for the purpose of performing a self
* change and setting a new password.  This token cannot be used to authenticate
* to the server in any other way, and it can only be used once.  The token will
* expire after a short period of time,
 and any attempt to use it after its
* expiration will fail.  In addition, because this token is only intended for
* use in the event that the current password cannot be used (e.g., because it
* has been forgotten or the account is locked), a successful bind with the
* current password will cause the server to invalidate any password reset token
* for that user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server will use the same mechanisms for delivering password reset tokens
* as it uses for
 delivering one-time passwords via the
* {@link DeliverOneTimePasswordExtendedRequest}.  See the
* ds-supported-otp-delivery-mechanism attribute in the root DSE for a list of
* the one-time password delivery mechanisms that are configured for use in the
* server.
* <BR><BR>
* This extended request is expected to be used to help applications provide a
* secure, automated password reset feature.  In the event that a user has
* forgotten his/her password, has allowed the password to expire, or has
* allowed the account to become locked, the application can collect a
* sufficient set of information to identify the user and request that the
* server generate and deliver the password reset token to the end user.
* <BR><BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.45.  It must have
* a value with the following encoding:
* <PRE>
*   DeliverPasswordResetTokenRequestValue ::= SEQUENCE {
*       userDN                    LDAPDN,
*       messageSubject
            [0] OCTET STRING OPTIONAL,
*       fullTextBeforeToken          [1] OCTET STRING OPTIONAL,
*       fullTextAfterToken           [2] OCTET STRING OPTIONAL,
```

```
*       compactTextBeforeToken         [3] OCTET STRING OPTIONAL,
*       compactTextAfterToken          [4] OCTET STRING OPTIONAL,
*       preferredDeliveryMechanism     [5] SEQUENCE OF SEQUENCE {
*           mechanismName     OCTET STRING,
*           recipientID       OCTET STRING OPTIONAL },
*       ... }
* </PRE>
*
* @see  DeliverPasswordResetTokenExtendedResult
*/
```

Found in path(s):
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/**
* This class defines a monitor entry that provides information about the types
* of LDAP operations processed through an LDAP connection handler.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
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* <BR>
* Information available through this monitor entry includes:
* <UL>
*   <LI>The total number of requests for each type of operation received by the
*       connection handler.</LI>
*   <LI>The total number of responses of each type of operation returned by the
*       connection handler.</LI>
*   <LI>The total number of search result entries returned by the connection
*       handler.</LI>
*   <LI>The total number of search result references returned by the connection
*       handler.</LI>
*   <LI>The total number of LDAP messages read from clients.</LI>
*   <LI>The total number of LDAP messages written to clients.</LI>
*   <LI>The total number of request bytes read from clients.</LI>
*   <LI>The total number of response bytes written to clients.</LI>
*   <LI>The number of connections accepted by the connection
 handler.</LI>
*   <LI>The number of connections closed by the connection handler.</LI>
*   <LI>The number of operations initiated by the connection handler.</LI>
*   <LI>The number of operations completed by the connection handler.</LI>
*   <LI>The number of operations abandoned by the connection handler.</LI>
* </UL>
* The LDAP statistics monitor entries provided by the server can be retrieved
* using the {@link MonitorManager#getLDAPStatisticsMonitorEntries} method.
* These entries provide specific methods for accessing information about the
* LDAP connection handler (e.g., the
* {@link LDAPStatisticsMonitorEntry#getAbandonRequests} method can be used to
* retrieve the number of abandon requests received).  Alternately, this
* information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
```

* the use of the generic API for accessing monitor data.
*/

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/**
* This package contains a set of tools primarily intended for interacting with
* Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products.
*

```
* <BLOCKQUOTE>
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/**
* This class provides an implementation of the unsolicited cancel response
* control, which may be returned by the Directory Server if an operation is
* canceled by the server without a cancel or abandon request from the client.
* This control does not have a value.
* <BR>
* <BLOCKQUOTE>
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides an implementation of a changelog entry which provides
* support for all standard changelog entry attributes as well as those unique
* to the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory
* Server.
* <BR>
* <BLOCKQUOTE>
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*/
/**
* This class defines an operation that may be used in conjunction with the
* password policy state extended operation.  A password policy state operation
* can be used to get or set various properties of the password policy state for
* a user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Operations that are available for use with the password policy state
* operation include:
* <UL>
*   <LI>Get the DN of the password policy configuration entry for the target
*       user.</LI>
*   <LI>Determine whether an account is usable (may authenticate or be used as
```

```
*      an alternate authorization identity.</LI>
*   <LI>Retrieve the set of account usability notice, warning, and error
*      messages for a user.</LI>
*   <LI>Get, set, and clear the account disabled flag for the target user.</LI>
*   <LI>Get, set, and clear the account activation time for the target
*      user.</LI>
*   <LI>Get, set, and clear the account expiration time for the target
*      user.</LI>
*   <LI>Get the length of time
 in seconds until the target user account
*      expires.</LI>
*   <LI>Get the time that the target user's password was last changed.</LI>
*   <LI>Get and clear the time that the first password expiration warning was
*      sent to the user.</LI>
*   <LI>Get the length of time in seconds until the target user's password
*      expires and the password expiration time for the account.</LI>
*   <LI>Get the length of time in seconds until the user should receive the
*      first warning about an upcoming password expiration.</LI>
*   <LI>Determine whether the user's password is expired.</LI>
*   <LI>Determine whether the account is locked because of failed
*      authentication attempts, an idle lockout, or a password reset
*      lockout.</LI>
*   <LI>Get, update, set, and clear the list of times that the target user has
*      unsuccessfully tried to authenticate since the last successful
*      authentication.</LI>
*   <LI>Get the number of remaining failed authentication
 attempts for the
*      target user before the account is locked.</LI>
*   <LI>Get the length of time in seconds until the target user's account is
*      automatically unlocked after it was locked due to failed authentication
*      attempts.</LI>
*   <LI>Get, set, and clear the time that the user last authenticated to the
*      server.</LI>
*   <LI>Get, set, and clear the IP address of the client from which the user
*      last authenticated to the server.</LI>
*   <LI>Get the length of time in seconds until the user account may be locked
*      after remaining idle.</LI>
*   <LI>Get, set, and clear the flag that controls whether the target user must
*      change his/her password before being allowed to perform any other
*      operations.</LI>
*   <LI>Get the length of time in seconds until the user's account is locked
*      after failing to change the password after an administrative
*      reset.</LI>
*   <LI>Get, update, set, and clear the
 times that the target user has
*      authenticated using a grace login after the password had expired.</LI>
*   <LI>Retrieve the number of remaining grace logins for the user.</LI>
*   <LI>Get, set, and clear the required password change time for the target
```

```
*       user.</LI>
*   <LI>Retrieve the length of time in seconds until the target user's account
*       will be locked as a result of failing to comply with a password change
*       by required time.</LI>
*   <LI>Get the password history count for the target user.</LI>
*   <LI>Clear the password history for the target user.</LI>
*   <LI>Get information about or purge a user's retired password.</LI>
*   <LI>Get information about which SASL mechanisms are available for a
*       user.</LI>
*   <LI>Get information about which OTP delivery mechanisms are available for a
*       user.</LI>
*   <LI>Determine whether a user has any TOTP shared secrets and manipulate the
*       registered secrets.</LI>
*   <LI>Get,
 set, and clear the public IDs of any YubiKey OTP devices
*       registered for a user.</LI>
*   <LI>Determine whether the user has a static password.</LI>
*   <LI>Get, set, and clear the time that the server last performed validation
*       on a password provided in a bind request.</LI>
*   <LI>Get and set whether the user's account is locked because it contains a
*       password that does not satisfy all of the configured password
*       validators.</LI>
*   <LI>Get and clear a user's recent login history.</LI>
* </UL>
* Note that many of these methods are dependent upon the password policy
* configuration for the target user and therefore some of them may not be
* applicable for some users.  For example, if password expiration is not
* enabled in the password policy associated with the target user, then
* operations that involve password expiration will have no effect and/or will
* have a return value that indicates that password expiration is not in effect.
*/

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 in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateOperation.java
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*/
/**
* This enum defines the set of fields that are supported for use with the
* {@link ModifiablePasswordPolicyStateJSON} object.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides an implementation of an extended request that can be used
* to retrieve backup compatibility data for a Directory Server backend.  This
* includes both a token that can be used to compare compatibility data with
* other servers (or potentially the same server at a later date, for example
* to check compatibility after upgrading to a new version), and a set of
* capability strings that may provide additional context about how the backup
* descriptor may be used.
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.30.  It must have
* a value with the following encoding:
* <PRE>
*   GetBackupCompatibilityDescriptorRequest ::= SEQUENCE {
*        baseDN     [0] OCTET STRING,
*        ... }
* </PRE>
*
* @see  GetBackupCompatibilityDescriptorExtendedResult
* @see  IdentifyBackupCompatibilityProblemsExtendedRequest
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetBackupCompatibilityDescriptorExtendedRequest.java
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*/
/**
* This class acts as a superclass for objects that may be used to indicate how
* the server should handle updating trust information for a new listener
* certificate chain.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class defines an indicator gauge monitor entry, which obtains its
* information from a non-numeric value in a monitor entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at a specified time.  The first
* change of the batch will be the first change on any server with a change time
* greater than or equal to the specified time.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides an implementation of a JSON object filter that can
* perform a logical OR across the result obtained from a number of filters.
* The OR filter will match an object only if at least one (and optionally,
* exactly one) of the filters contained in it matches that object.  An OR
* filter with an empty set of embedded filters will never match any object.
* <BR>
```

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package
 structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "OR" filter are:
* <UL>
*   <LI>
*     {@code orFilters} -- An array of JSON objects, each of which is a valid
*     JSON object filter.  At least one of these filters must match a JSON
*     object in order for the OR filter to match.  If this is an empty array,
*     then the filter will not match any object.
*   </LI>
* </UL>
* The fields that may optionally be included in an "OR" filter are:
* <UL>
*   <LI>
*     {@code exclusive} -- Indicates whether this should be treated as an
*     exclusive OR.  If this is present, then it
 must have a Boolean value of
*     either {@code true} (to indicate that this OR filter will only match a
*     JSON object if exactly one of the embedded filters matches that object),
*     or {@code false} (to indicate that it is a non-exclusive OR and will
*     match a JSON object as long as at least one of the filters matches that
*     object).  If this is not specified, then a non-exclusive OR will be
*     performed.
*   </LI>
* </UL>
* <H2>Examples</H2>
* The following is an example of an OR filter that will never match any JSON
* object:
* <PRE>
*   { "filterType" : "or",
*     "orFilters" : [ ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   ORJSONObjectFilter filter = new ORJSONObjectFilter();
* </PRE>
* <BR><BR>
* The following is an example of an OR filter that will match any JSON object
* that contains either a top-level field named "homePhone" or a top-level
```

```
* field named "workPhone":
* <PRE>
*   { "filterType" : "or",
*
    "orFilters" : [
*      { "filterType" : "containsField",
*        "field" : "homePhone" },
*      { "filterType" : "containsField",
*        "field" : "workPhone" } ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   ORJSONObjectFilter filter = new ORJSONObjectFilter(
*       new ContainsFieldJSONObjectFilter("homePhone"),
*       new EqualsJSONObjectFilter("workPhone"));
* </PRE>
*/
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify DN
* request that was forwarded to a backend server but did not complete
* successfully.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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*/
/**
* This class defines a monitor entry that provides information about the
* processing times of operations that are performed in the server in the
* context of a single application.  It derives most of its functionality
* from its parent class, {@link ProcessingTimeHistogramMonitorEntry}.  The
* only additional information that is provided is the name of the application
* to which the monitor entry applies.
* <BR>
* <BLOCKQUOTE>
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server can present zero or more per application processing time
* histogram monitor entries.  They can be retrieved using the
* {@link MonitorManager#getPerApplicationProcessingTimeHistogramMonitorEntries}
* method.  This entry provides specific methods for accessing information about
* processing times per bucket (e.g., the
* Alternately, this information may be accessed using the generic
* API.  See the {@link MonitorManager} class documentation for an example that
```

* demonstrates the use of the generic API for accessing monitor data.
*/

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 in path(s):
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*/
/**
* This class provides a request control that can be included in a modify
* request or a password modify extended request in order to indicate that if

```
* the operation results in changing the password for a user, the user's former
* password should be marked as "retired", which may allow it to remain in use
* for a brief period of time (as configured in the password policy governing
* that user) to allow for applications which may have been configured with that
* password can be updated to use the new password.
 * <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of "1.3.6.1.4.1.30221.2.5.31" and does not have a
* value.  The criticality may be either true (in which case the operation will
* succeed only if the user's password policy allows passwords to be retired by
* a request control) or false (in which case if the password policy does not
* allow the use of this control, the operation will be processed as if the
* control had not been included in the request).
* <BR><BR>
* <H2>Example</H2>
 * The following example demonstrates the use of the retire password request
* control to request that a user's current password be retired in the course of
* a password change.
* <PRE>
* Control[] requestControls =
* {
*   new RetirePasswordRequestControl(true)
* };
*
* PasswordModifyExtendedRequest passwordModifyRequest =
*      new PasswordModifyExtendedRequest(
*           "uid=test.user,ou=People,dc=example,dc=com", // The user to update
*           null, // The current password -- we don't know it.
*           "newPassword", // The new password to assign to the user.
*           requestControls); // The controls to include in the request.
* PasswordModifyExtendedResult passwordModifyResult =
*      (PasswordModifyExtendedResult)
*      connection.processExtendedOperation(passwordModifyRequest);
* </PRE>
*
* @see  PurgePasswordRequestControl
*/
```

Found in path(s):

* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/RetirePasswordRequestControl.java
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*/
/**
* This class defines a Directory Server task that can be used to identify files
* in a specified directory that match a given pattern, and delete any of those
* files that are outside of a provided set of retention criteria.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
```

```
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The files to examine are identified by a combination of three items:
* <UL>
*   <LI>A target directory.  This is simply the path to the directory that
*       contains the files to examine.</LI>
*   <LI>A filename pattern.  This is a string that will be used to identify
*       the files of interest in the target directory.  The pattern may contain
*       zero or more (non-consecutive) asterisks to use as wildcards that match
*       zero or more characters, and it may contain at most one occurrence of
*       the token "${timestamp}" (without the quotation marks) that is a
*       placeholder for a timestamp that indicates when the file was written or
*       the age of the data in that file.  For example, the filename pattern
*
        "*-${timestamp}.log" will match any file in the target directory that
*       ends with a dash, a timestamp, and an extension of ".log".</LI>
*   <LI>A timestamp format.  This specifies the format that will be used for
*       the value that matches the "${timestamp}" token in the filename
*       pattern.  See the {@link FileRetentionTaskTimestampFormat} enum for the
*       set of defined timestamp formats.</LI>
* </UL>
* <BR>
* The types of retention criteria include:
* <UL>
*   <LI>A retain count, which specifies the minimum number of files to retain.
*       For example, if there is a retain count of five, and the target
*       directory contains ten files that match the filename pattern, the task
*       will always keep at least the five most recent files, while the five
*       oldest files will be candidates for removal.</LI>
*   <LI>A retain age, which specifies the minimum age of the files to retain.
*       If the filename pattern includes a timestamp,
 then the age of the file
*       will be determined using that timestamp.  If the filename pattern does
*       not contain a timestamp, then the age of the file will be determined
*       from the file's create time attribute (if available) or last modified
*       time.  The task will always keep all files whose age is less than or
*       equal to the retain age, while files older than the retain age will be
*       candidates for removal.</LI>
*   <LI>An aggregate retain size, which specifies combined minimum amount of
*       disk space that should be consumed by the files that should be
*       retained.  For example, if the task is configured with an aggregate
*       retain size of 500 megabytes and the files to examine are all 75
```

```
*       megabytes each, then the task will keep at least the seven most recent
*       files (because 500/75 = 6.7, and the task will always round up to the
*       next whole number), and any older files in the same directory that
*
     match the pattern will be candidates for removal.
* </UL>
* <BR>
* The task must be configured with at least one of the three types of retention
* criteria, but it may combine any two or all three of them.  If a task is
* configured with multiple types of retention criteria, then a file will only
* be a candidate for removal if it is outside of all of the retention criteria.
* For example, if the task is configured with a retain count of 5 and a retain
* age of 1 week, then the task may retain more than five files if there are
* more than five files that are less than a week old, and it may retain files
* that are more than a week old if there are fewer than five files within that
* age.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/FileRetentionTask.java
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*/
/**
* This class defines a Directory Server task that can be used to cause the
* server to initiate a data security audit, which can look for potential
* issues in the environment that can impact the security of the directory
* environment.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The names of the auditors to include or exclude from the audit. This
*   is optional, and if it is not provided, then all enabled auditors will
*   be used.</LI>
*   <LI>The backend IDs for the backends containing the data to be audited.
*   This is optional, and if it is not provided then the server will run
*   the audit in all backends that support this capability.</LI>
*   <LI>A set of filters which identify the entries that should be examined by
*   the audit. This is optional, and if it is not provided, then all
*   entries in the selected backends will be included.</LI>
*   <LI>The path to the directory
in which the output files should be
*   generated. This is optional, and if it is not provided then the server
*   will use a default output directory.</LI>
* </UL>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/AuditDataSecurityTask.java

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*/
/**
  * Sets the SASL client for the provided ASN.1 stream reader.  This method is
  * intended for use as a helper for processing data that has been encoded some
  * form of SASL integrity or confidentiality, and should not be used for other
  * purposes.
  *
  * @param  asn1StreamReader  The ASN.1 stream reader for which to set the
  *                           SASL client.
  * @param  saslClient        The SASL client to set for the ASN.1 stream
  *                           reader.
```

```
 */
```

Found in path(s):

```
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/InternalASN1Helper.java
```

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*/
/**
* This class defines a Directory Server task that can be used to safely remove
* an attribute type from the server schema.  It will make sure that the
* attribute type is not in use in the server before removing it.
* <BR>
```

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 *   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The name or OID of the attribute type to remove from the server
*       schema.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/RemoveAttributeTypeTask.java
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/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have a specified field whose value matches
* one of specified set of values.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "equals any" filter are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which to
*     make the determination.  This may be either a single string or an array
*     of strings as described in the "Targeting Fields in JSON Objects" section
*     of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
*   <LI>
*     {@code values} -- The set of values that should be used to match.  This
*     should be an array, but the elements of the array may be of any type.  In
*     order for a JSON object ot match this "equals any" filter, either the
*     value of the target field must have the same type and value as one of the
*     values in this array, or the value of the
 target field must be an array
*     containing at least one element with the same type and value as one of
*     the values in this array.
*   </LI>
* </UL>
* The fields that may optionally be included in an "equals" filter are:
* <UL>
```

```
*   <LI>
*     {@code caseSensitive} -- Indicates whether string values should be
*     treated in a case-sensitive manner.  If present, this field must have a
*     Boolean value of either {@code true} or {@code false}.  If it is not
*     provided, then a default value of {@code false} will be assumed so that
*     strings are treated in a case-insensitive manner.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of an "equals any" filter that will match any
* JSON object that includes a top-level field of "userType" with a value of
* either "employee", "partner", or "contractor":
* value:
* <PRE>
*   { "filterType" : "equalsAny",
*     "field" : "userType",
*     "values" : [  "employee", "partner", "contractor"
 ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   EqualsAnyJSONObjectFilter filter = new EqualsAnyJSONObjectFilter(
*        "userType", "employee", "partner", "contractor");
* </PRE>
*/
```

Found in path(s):
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a the
* beginning of an entry rebalancing operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/logs/EntryRebalancingRequestAccessLogMessage.java
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*/
/**
* This class defines a data structure that can hold information about a thread
* stack trace read from the Directory Server's stack trace monitor.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information available in a thread stack trace includes:
* <UL>
*   <LI>The name of the thread.  This is generally a user-friendly string that
*       indicates what that thread does within the server.</LI>
```

```
*   <LI>The thread ID that is assigned to the thread by the JVM.</LI>
*   <LI>The stack trace frames for that thread as a list of
*       {@link StackTraceElement} objects.</LI>
* </UL>
* See the documentation in the {@link StackTraceMonitorEntry} class for
* information about accessing the Directory Server stack trace.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ThreadStackTrace.java
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*/
```

```
/**
* This class acts as a superclass for objects that may be used to indicate how
* a certificate key store may be made available to a server instance when
* replacing listener or inter-server certificates.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceCertificateKeyStoreContent.java

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*/
/**
* This enum describes the mechanism that the server should use when selecting
* the password policy to use (for its password generator and validators) while
* processing a {@link GeneratePasswordExtendedRequest}.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/GeneratePasswordPolicySelectionType.java
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*/
/**
* This class provides an implementation of a Directory Server control that may
* be used to indicate that the associated operation is used for performing some
* administrative operation within the server rather than one that was requested
* by a "normal" client.  The server can use this indication to treat the
* operation differently (e.g., exclude it from the processing time histogram,
* or to include additional information about the purpose of the operation in
* the access log).
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.30221.2.5.11 and a criticality
* of false.  It may optionally have a value that is simply the bytes that
* comprise the message to include in the control.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/AdministrativeOperationRequestControl.java

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*/
/**
* This class defines a monitor entry that provides information about the state
* of the traditional work queue.  For all practical purposes, the traditional
* work queue has been replaced by the UnboundID Work Queue, which is the
* default work queue implementation (which exposes its own monitor information
* that can be accessed using the {@link UnboundIDWorkQueueMonitorEntry}).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
```

```
 package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* In the event that the traditional work queue is configured for use instead of
* the UnboundID work queue, then this monitor entry may be used to access the
* information that it provides, which may include:
* <UL>
*   <LI>The total number of requests submitted to the work queue.</LI>
*   <LI>The number of requests that were rejected because the work queue was
*       already at its maximum capacity.</LI>
*   <LI>The number of operations currently held in the work queue waiting to be
*       picked for processing by a worker thread.</LI>
*   <LI>The average number of operations
 held in the work queue since startup
*       as observed from periodic polling.</LI>
*   <LI>The maximum number of operations held in the work queue at any time
*       since startup as observed from periodic polling.</LI>
* </UL>
* The server should present at most one traditional work queue monitor entry.
* It can be retrieved using the
* {@link MonitorManager#getTraditionalWorkQueueMonitorEntry} method.  This
* entry provides specific methods for accessing information about the state of
* the work queue (e.g., the
* {@link TraditionalWorkQueueMonitorEntry#getCurrentBacklog} method may be used
* to retrieve the number of operations currently held in the work queue).
* Alternately, this information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

Found in path(s):

```
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/TraditionalWorkQueueMonitorEntry.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a delete operation processed by the Directory Server.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/DeleteResultAccessLogMessage.java

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*/
/**
* This class defines a set of properties that may be used when creating a
* {@link RemoveObjectClassTask}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

```
*   considered stable or mature enough to
 be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/RemoveObjectClassTaskProperties.java
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/**
```

```
* This class defines a monitor entry that provides general information about
* the state of the Directory Server.  The general monitor entry is the
* top-level monitor entry that is generated by the monitor backend and is the
* parent of all monitor entries generated by the registered monitor providers.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Information that may be included in the general monitor entry includes:
* <UL>
*   <LI>The number of connections currently established to the server.</LI>
*   <LI>The maximum number of connections that have been established at any one
*       time.</LI>
*   <LI>The total number of connections established to the server since
*       startup.</LI>
*   <LI>The time that the directory server was started.</LI>
*   <LI>The current time on the server.</LI>
*   <LI>The length of time in milliseconds that the server has been
*       online.</LI>
*   <LI>A user-friendly string that describes the length of time that the
*       server has been online.</LI>
*
 <LI>The name of the directory server product.</LI>
*   <LI>The name of the vendor that provides the directory server.</LI>
*   <LI>The server version string.</LI>
*   <LI>The DNs of the configuration entries for any third-party extensions
*       loaded in the server.</LI>
* </UL>
* The server should present at most one general monitor entry.  It can be
* retrieved using the {@link MonitorManager#getGeneralMonitorEntry} method.
* This entry provides specific methods for accessing information about the
* server (e.g., the
* {@link GeneralMonitorEntry#getCurrentConnections} method can be used
* to retrieve the number of connections currently established).  Alternately,
* this information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

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/**
* This class provides an implementation of the start batched transaction
* extended request.  It may be used to begin a transaction that allows multiple
* write operations to be processed as a single atomic unit.  The
* {@link StartBatchedTransactionExtendedResult} that is returned will include a
* a transaction ID.  For each operation that is performed as part of the
* transaction, this transaction ID should be included in the corresponding
* request through the {@link BatchedTransactionSpecificationRequestControl}.
```

```
 * Finally, after all requests for the transaction have been submitted to the
* server, the {@link EndBatchedTransactionExtendedRequest} should be used to
* commit that transaction, or it may also be used to abort the transaction if
* it is decided that it is no longer needed.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Transactions processed using this mechanism are called "batched transactions"
* because the associated requests are collected in the server and are only
* processed once
 the {@link EndBatchedTransactionExtendedRequest} has been
* received to indicate that the transaction should be committed.  As a result,
* it is only possible to include write operations (in particular, add, delete,
* modify, modify DN, and password modify operations) in a batched transaction.
* Read operations (like search, bind, and compare) cannot be included in a
* batched transaction.  However, it is possible to use some controls within the
* transaction and they may prove to be sufficient in many cases.  The controls
* that can be included in operations that are part of a batched transaction
* include:
* <UL>
*   <LI>{@link AccountUsableRequestControl}</LI>
*   <LI>{@link com.unboundid.ldap.sdk.controls.AssertionRequestControl}</LI>
*   <LI>{@link IntermediateClientRequestControl}</LI>
*   <LI>{@link com.unboundid.ldap.sdk.controls.ManageDsaITRequestControl}</LI>
*   <LI>{@link PasswordPolicyRequestControl}</LI>
*   <LI>{@link com.unboundid.ldap.sdk.controls.PostReadRequestControl}</LI>
 *   <LI>{@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}</LI>
*   <LI>{@link SubtreeDeleteRequestControl}</LI>
* </UL>
* In particular, the assertion control may be used to ensure that an operation
* is only performed if the target entry matches a given filter (which allows
* for an atomic compare-and-swap operation), and the pre-read and post-read
* controls may be used to retrieve a copy of an entry immediately before or
* immediately after the operation was performed.
* <BR><BR>
* Note that even though the operations which are part of this transaction
* aren't actually processed until the end batched transaction request is
* received, the directory server will send back a response for each operation
* that is to be performed as part of the transaction.  If the result of this
* response is {@link ResultCode#SUCCESS}, then it means that the server has
```

```
* accepted the operation and it will be processed when the end batched
* transaction
 request is received indicating that the transaction should be
* committed.  However, if it has some other result then it indicates that the
* request may have been malformed or did not meet the requirements for the
* transaction (e.g., it included a control that is not allowed for a
* transaction).  Note that even if the server returns a non-success response
* for an operation prior to the end batched transaction request, the
* transaction will still be active in the server and other operations may still
* be included in the transaction if desired.  If it is no longer desirable to
* process the transaction, then the end batched transaction request should be
* used to abort the transaction.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process for using batched
* transactions.  It will modify two different entries as a single atomic
* unit.
* <PRE>
* // Use the start transaction extended operation to begin a transaction.
* StartBatchedTransactionExtendedResult
 startTxnResult;
* try
* {
*   startTxnResult = (StartBatchedTransactionExtendedResult)
*        connection.processExtendedOperation(
*             new StartBatchedTransactionExtendedRequest());
*   // This doesn't necessarily mean that the operation was successful, since
*   // some kinds of extended operations return non-success results under
*   // normal conditions.
* }
* catch (LDAPException le)
* {
*   // For an extended operation, this generally means that a problem was
*   // encountered while trying to send the request or read the result.
*   startTxnResult = new StartBatchedTransactionExtendedResult(
*        new ExtendedResult(le));
* }
* LDAPTestUtils.assertResultCodeEquals(startTxnResult, ResultCode.SUCCESS);
* ASN1OctetString txnID = startTxnResult.getTransactionID();
*
*
* // At this point, we have a transaction available for use.  If any problem
* // arises, we want to ensure that the transaction is aborted, so create a
* // try
 block to process the operations and a finally block to commit or
* // abort the transaction.
* boolean commit = false;
* try
```

```
* {
*   // Create and process a modify operation to update a first entry as part
*   // of the transaction.  Make sure to include the transaction specification
*   // control in the request to indicate that it should be part of the
*   // transaction.
*   ModifyRequest firstModifyRequest = new ModifyRequest(
*       "cn=first,dc=example,dc=com",
*       new Modification(ModificationType.REPLACE, "description", "first"));
*   firstModifyRequest.addControl(
*       new BatchedTransactionSpecificationRequestControl(txnID));
*   LDAPResult firstModifyResult;
*   try
*   {
*     firstModifyResult = connection.modify(firstModifyRequest);
*   }
*   catch (LDAPException le)
*   {
*     firstModifyResult = le.toLDAPResult();
*   }
*   LDAPTestUtils.assertResultCodeEquals(firstModifyResult,
*       ResultCode.SUCCESS);
*
*   // Perform a second
 modify operation as part of the transaction.
*   ModifyRequest secondModifyRequest = new ModifyRequest(
*       "cn=second,dc=example,dc=com",
*       new Modification(ModificationType.REPLACE, "description", "second"));
*   secondModifyRequest.addControl(
*       new BatchedTransactionSpecificationRequestControl(txnID));
*   LDAPResult secondModifyResult;
*   try
*   {
*     secondModifyResult = connection.modify(secondModifyRequest);
*   }
*   catch (LDAPException le)
*   {
*     secondModifyResult = le.toLDAPResult();
*   }
*   LDAPTestUtils.assertResultCodeEquals(secondModifyResult,
*       ResultCode.SUCCESS);
*
*   // If we've gotten here, then all writes have been processed successfully
*   // and we can indicate that the transaction should be committed rather
*   // than aborted.
*   commit = true;
* }
* finally
* {
```

```
*   // Commit or abort the transaction.
*   EndBatchedTransactionExtendedResult endTxnResult;
*   try
*   {
*     endTxnResult
 = (EndBatchedTransactionExtendedResult)
*          connection.processExtendedOperation(
*               new EndBatchedTransactionExtendedRequest(txnID, commit));
*   }
*   catch (LDAPException le)
*   {
*     endTxnResult = new EndBatchedTransactionExtendedResult(
*          new ExtendedResult(le));
*   }
*   LDAPTestUtils.assertResultCodeEquals(endTxnResult, ResultCode.SUCCESS);
* }
* </PRE>
*/
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of replication assurance processing for an add operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
 *   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/AddAssuranceCompletedAccessLogMessage.java
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*/
/**
* This class provides an implementation of an extended request that may be used
* to request that the Directory Server deliver a one-time password to an end
* user that they may use to authenticate via an
* {@link com.unboundid.ldap.sdk.unboundidds.UnboundIDDeliveredOTPBindRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Notes on the recommended use of this extended request:
* <UL>
*   <LI>Whenever possible, the user's static password should be provided.
*       However, the server will allow the static password to be omitted if the
*       authentication ID included in the request matches the authorization
*       identity of the extended operation (either because that user is already
*       authenticated on the connection, or because the request includes a
*       proxied authorization or intermediate client control specifying that
*       identity).  In that case, the operation will be able to act as a
*       "step-up" mechanism, providing further proof of the identity of an
```

```
*       already-authenticated
 client rather than performing the complete
*       authentication process.</LI>
*   <LI>The request offers two mechanisms for indicating which delivery
*       mechanism(s) should be considered:  an option to specify just the
*       delivery mechanism names, and an option to specify the names along with
*       recipient IDs.  At most one of these elements must be present in the
*       request.  If neither is present, the server will attempt to determine
*       which delivery mechanisms and recipient IDs should be used.  If the
*       set of preferred delivery mechanisms includes multiple items, the
*       server will attempt them in the order provided until it is able to
*       successfully deliver the message.  The server will not attempt to
*       use any other delivery mechanisms that may be configured if the request
*       includes a list of preferred delivery mechanisms.</LI>
*   <LI>Although the message elements (message subject, and full
 and compact
*       text before and after the OTP) are optional, it is recommended that
*       they be supplied by the client.  The server will provide a generic
*       message if no message elements are included in the request.</LI>
* </UL>
* <BR><BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.24.  It must have
* a value, and that value should have the following encoding:
* <BR><BR>
* <PRE>
*   DeliverOTPRequest ::= SEQUENCE {
*       authenticationID            [0] OCTET STRING,
*       staticPassword              [1] OCTET STRING OPTIONAL,
*       preferredMechNames          [2] SEQUENCE OF OCTET STRING OPTIONAL,
*       preferredMechNamesAndIDs    [3] SEQUENCE OF SEQUENCE,
*           mechanismName     OCTET STRING,
*           recipientID       OCTET STRING OPTIONAL } OPTIONAL,
*       messageSubject              [4] OCTET STRING OPTIONAL,
*       fullTextBeforeOTP           [5] OCTET STRING OPTIONAL,
*       fullTextAfterOTP
          [6] OCTET STRING OPTIONAL,
*       compactTextBeforeOTP        [7] OCTET STRING OPTIONAL,
*       compactTextAfterOTP         [8] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*
* @see  com.unboundid.ldap.sdk.unboundidds.UnboundIDDeliveredOTPBindRequest
* @see  DeliverOneTimePasswordExtendedResult
*/
```

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*/
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/NamedCurve.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/ManageCertificatesSecurityManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/InternalCertHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/SaltedMessageDigestInMemoryPasswordEncoder.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/PromptTrustManagerProcessor.java
*

/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1ObjectIdentifier.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/CRLDistributionPointRevocationReason.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryDirectoryServerPassword.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/ExtendedKeyUsageID.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/RSAPublicKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1UTF8String.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/X509CertificateVersion.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/JVMDefaultTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryPasswordEncoder.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/CRLDistributionPoint.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/CertException.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1PrintableString.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1GeneralizedTime.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/EllipticCurvePublicKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/PKCS10CertificateSigningRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/DecodedPrivateKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/GeneralNames.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1NumericString.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/PKCS8PrivateKeyVersion.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/PKCS8PrivateKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/BasicConstraintsExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/OIDArgumentValueValidator.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/X509CertificateExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1UTCTime.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/GeneralAlternativeNameExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/util/ssl/cert/PKCS10CertificateSigningRequestVersion.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/HexPasswordEncoderOutputFormatter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1BigInteger.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/PasswordEncoderOutputFormatter.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/UnsaltedMessageDigestInMemoryPasswordEncoder.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/Base64PasswordEncoderOutputFormatter.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/ManageCertificates.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1BitString.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/RSAPrivateKeyVersion.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/util/ssl/cert/ManageCertificatesServerCertificateCollector.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/AuthorityKeyIdentifierExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/RSAPrivateKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/IssuerAlternativeNameExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/SubjectKeyIdentifierExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1IA5String.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/PublicKeyAlgorithmIdentifier.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/KeyUsageExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/GeneralNamesBuilder.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/X509Certificate.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/EllipticCurvePrivateKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/CRLDistributionPointsExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/ExtendedKeyUsageExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/SignatureAlgorithmIdentifier.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/ClearInMemoryPasswordEncoder.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/SubjectAlternativeNameExtension.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/DecodedPublicKey.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/CachingNameResolver.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMServerFinalMessage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/WriteTimeoutHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SubtreeDeleterResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DefaultNameResolver.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/PasswordFileReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMSHA256BindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMServerFirstMessage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMClientFinalMessage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/TLSCipherSuiteComparator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMSHA1BindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/SelfSignedCertificateGenerator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/FullLDAPInterface.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ServerSetBlacklistManagerTimerTask.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ServerSetBlacklistManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/transformations/ExcludeChangeTypeTransformation.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMSHA512BindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/MockableLDAPConnection.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/transformations/ExcludeAllEntriesTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/TLSCipherSuiteSelector.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SCRAMClientFirstMessage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/IndentLDAPFilter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/NameResolver.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SubtreeDeleterSearchResultListener.java
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*/
/**
* This class provides a data structure for holding a value included in the
* stream proxy values intermediate response.  It contains the value, and the ID
* of the backend set with which the value is associated.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides support for a number of one-time password algorithms.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to
 work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Supported algorithms include:
* <UL>
```

```
*   <LI>HOTP -- The HMAC-based one-time password algorithm described in
*       <A HREF="http://www.ietf.org/rfc/rfc4226.txt">RFC 4226</A>.</LI>
*   <LI>TOTP -- The time-based one-time password algorithm described in
*       <A HREF="http://www.ietf.org/rfc/rfc6238.txt">RFC 6238</A>.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/OneTimePassword.java
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*/
/**
```

```
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a
* connection that has been closed.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/DisconnectAccessLogMessage.java

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*/
/**
* This class provides an {@link LDAPResultWriter} instance that uses a
* {@link ColumnFormatter} to output search result entries in a format like CSV
* or tab-delimited text.  Only a single value from each attribute will be used,
* and an empty string will be used for attributes without any values.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ColumnBasedLDAPResultWriter.java

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*/
/**
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The use of interactive transactions is discouraged because it
*   can create conditions which are prone to deadlocks between operations that
*   may result in the cancellation of one or both operations.  It is strongly
*   recommended that standard LDAP transactions (which may be started using a
*   {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
*   or a multi-update extended operation be used instead.  Although they cannot
*   include arbitrary
 read operations, LDAP transactions and multi-update
*   operations may be used in conjunction with the
*   {@link com.unboundid.ldap.sdk.controls.AssertionRequestControl},
*   {@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}, and
*   {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl} to
*   incorporate some read capability into a transaction, and in conjunction
*   with the {@link com.unboundid.ldap.sdk.ModificationType#INCREMENT}
*   modification type to increment integer values without the need to know the
*   precise value before or after the operation (although the pre-read and/or
*   post-read controls may be used to determine that).
* </BLOCKQUOTE>
* This class implements a data structure for storing the information from an
* extended result for the start interactive transaction extended request.  It
* is able to decode a generic extended result to extract the transaction ID and
* base DNs that it may contain, if the operation was successful.
 * <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
```

```
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* See the documentation for the
* {@link StartInteractiveTransactionExtendedRequest} class for an example that
* demonstrates the use of interactive transactions.
*
* @deprecated  The use of interactive transactions is strongly discouraged
*              because it can create conditions which are prone to deadlocks
*              between operations that may significantly affect performance and
*              will result in the cancellation of one or
 both operations.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartInteractiveTransactionExtendedResult.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an extended
* request that was forwarded to a backend server but did not complete
* successfully.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These
classes provide support
*   for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/ExtendedForwardFailedAccessLogMessage.java
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*/
/**
* This class provides an implementation of an extended request that may be used
* to invoke the collect-support data tool in a Ping Identity Directory Server
* and stream the output (using
* {@link CollectSupportDataOutputIntermediateResponse} messages) and the
* resulting support data archive (using
* {@link CollectSupportDataArchiveFragmentIntermediateResponse} messages)
* back to the client before the final
* {@link CollectSupportDataExtendedResult} response.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>
  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The collect support data extended request has an OID of
* 1.3.6.1.4.1.30221.2.6.64 and a value with the following encoding:
* <BR>
* <PRE>
*   CollectSupportDataRequest ::= SEQUENCE {
```

```
*      archiveFileName               [0]  OCTET STRING OPTIONAL,
*      encryptionPassphrase          [1]  OCTET STRING OPTIONAL,
*      includeExpensiveData          [2]  BOOLEAN DEFAULT FALSE,
*      includeReplicationStateDump   [3]  BOOLEAN DEFAULT FALSE,
*      includeBinaryFiles            [4]
 BOOLEAN DEFAULT FALSE,
*      includeExtensionSource        [5]  BOOLEAN DEFAULT FALSE,
*      useSequentialMode             [6]  BOOLEAN DEFAULT FALSE,
*      securityLevel                 [7]  ENUMERATED {
*          none                      (0),
*          obscureSecrets            (1),
*          maximum                   (2),
*          ... } DEFAULT obscureSecrets,
*      jstackCount                   [8]  INTEGER (0..MAX) DEFAULT 10,
*      reportCount                   [9]  INTEGER (0..MAX) DEFAULT 10,
*      reportIntervalSeconds         [10] INTEGER (1..MAX) DEFAULT 1,
*      logCaptureWindow              [11] CHOICE {
*          toolDefault               [0] NULL,
*          durationMillis            [1] INTEGER (0..MAX),
*          timeWindow                [2] SEQUENCE {
*              startTime             OCTET STRING,
*              endTime               OCTET STRING OPTIONAL
 },
*          headAndTailSize           [3] SEQUENCE {
*              headSizeKB            [0] INTEGER OPTIONAL,
*              tailSizeKB            [1] INTEGER OPTIONAL },
*          ... } DEFAULT default,
*      comment                       [12] OCTET STRING OPTIONAL,
*      proxyToServer                 [13] SEQUENCE OF {
*          address                   OCTET STRING,
*          port                      INTEGER (1..65535),
*          ... } OPTIONAL,
*      maximumFragmentSizeBytes      [1] INTEGER DEFAULT 1048576,
*      ... }
* </PRE>
* <BR><BR>
* Because the tool output and the support data archive will be streamed back to
* the client using intermediate response messages, the request must be
* configured with an intermediate response listener to gain access to that
* information.
*
* @see  CollectSupportDataExtendedResult
* @see  CollectSupportDataOutputIntermediateResponse
* @see  CollectSupportDataArchiveFragmentIntermediateResponse
 * @see  CollectSupportDataSecurityLevel
* @see  CollectSupportDataLogCaptureWindow
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataExtendedRequest.java
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*/
/**
* This class defines a request control that may be used to indicate that the
* server should process all aspects of the associated bind request (including
* password policy processing) but should not actually change the identity for
* the client connection, regardless of whether the authentication is
* successful.
* <BR>
```

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping
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*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control can be very useful for applications that perform binds to
* authenticate users but also use connection pooling to re-use connections
* for multiple operations.  Bind operations are normally not well-suited for
* use on pooled connections because they change the identity of that
* connection, but the retain identity request control solves that problem by
* performing all bind processing but does not change the identity associated
* with the client connection.
* <BR><BR>
* There is no corresponding response control.  If the bind is successful, then
* the server should return a bind response with the {@code ResultCode#SUCCESS}
* result
 code just as if the bind request had not included the retain identity
* request control.
* <BR><BR>
* This control is not based on any public standard.  It was originally
* developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server.  It does not have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the retain identity request
* control:
* <PRE>
* SimpleBindRequest bindRequest = new SimpleBindRequest(
*      "uid=john.doe,ou=People,dc=example,dc=com", "password",
*      new RetainIdentityRequestControl());
*
* BindResult bindResult;
* try
* {
*   bindResult = connection.bind(bindRequest);
*   // The bind was successful and the account is usable, but the identity
*   // associated with the client connection hasn't changed.
* }
* catch (LDAPException le)
* {
*   bindResult = new BindResult(le.toLDAPResult());
*   // The bind was unsuccessful, potentially because the credentials were
```

```
 *   // invalid or the account is unusable for some reason (e.g., disabled,
*   // locked, expired password, etc.).  The identity associated with the
*   // client connection hasn't changed.
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/RetainIdentityRequestControl.java
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*/
```

```
/**
* This package contains sample programs that demonstrate the use of the
* UnboundID LDAP SDK for Java, and in particular portions of the LDAP SDK which
* are only intended for use with Ping Identity, UnboundID, or
* Nokia/Alcatel-Lucent 8661 server products.  See the com.unboundid.ldap.sdk
* .examples package for a set of examples that use only generally-available
* features.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
 package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Note that the scope of these programs has been intentionally kept small so
* that they are easier to understand, even though this may limit the real-world
* usefulness of these examples.  Further, these programs do not include
* support for internationalization and have minimal debugging code to further
* simplify them.
*/
```

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*/
/**
* This class provides an implementation of an LDAP command-line tool that may
* be used to apply changes to a directory server.  The changes to apply (which
* may include add, delete, modify, and modify DN operations) will be read in
* LDIF form, either from standard input or a specified file or set of files.
* This is a much more full-featured tool than the
* {@link com.unboundid.ldap.sdk.examples.LDAPModify} tool
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a data structure that holds information about a log
* message contained in a Directory Server access or error log file.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
*/
```

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*/
/**
* This class provides an implementation of an extended request that can be used
* to send multiple update requests to the server in a single packet, optionally
* processing them as a single atomic unit.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this request is 1.3.6.1.4.1.30221.2.6.17, and the value must have
* the following encoding:
* <BR><BR>
* <PRE>
*   MultiUpdateRequestValue ::= SEQUENCE {
*       errorBehavior     ENUMERATED {
*           atomic              (0),
*           quitOnError         (1),
*           continueOnError     (2),
*           ... },
*       requests          SEQUENCE OF SEQUENCE {
*           updateOp     CHOICE {
*               modifyRequest     ModifyRequest,
*               addRequest        AddRequest,
*               delRequest        DelRequest,
*               modDNRequest      ModifyDNRequest,
*               extendedReq       ExtendedRequest,
*               ... },
*           controls     [0] Controls OPTIONAL,
 *           ... },
*       ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the multi-update extended
* request to create a new user entry and modify an existing group entry to add
* the new user as a member:
* <PRE>
* MultiUpdateExtendedRequest multiUpdateRequest =
*     new MultiUpdateExtendedRequest(
*         MultiUpdateErrorBehavior.ABORT_ON_ERROR,
*         new AddRequest(
*             "dn: uid=new.user,ou=People,dc=example,dc=com",
*             "objectClass: top",
*             "objectClass: person",
*             "objectClass: organizationalPerson",
*             "objectClass: inetOrgPerson",
*             "uid: new.user",
*             "givenName: New",
*             "sn: User",
*             "cn: New User"),
*         new ModifyRequest(
```

```
*              "dn: cn=Test Group,ou=Groups,dc=example,dc=com",
*              "changetype: modify",
*              "add:
 member",
*              "member: uid=new.user,ou=People,dc=example,dc=com"));
*
* MultiUpdateExtendedResult multiUpdateResult =
*      (MultiUpdateExtendedResult)
*      connection.processExtendedOperation(multiUpdateRequest);
* if (multiUpdateResult.getResultCode() == ResultCode.SUCCESS)
* {
*   // The server successfully processed the multi-update request, although
*   // this does not necessarily mean that any or all of the changes
*   // contained in it were successful.  For that, we should look at the
*   // changes applied and/or results element of the response.
*   switch (multiUpdateResult.getChangesApplied())
*   {
*     case NONE:
*       // There were no changes applied.  Based on the configuration of the
*       // request, this means that the attempt to create the user failed
*       // and there was no subsequent attempt to add that user to a group.
*       break;
*     case ALL:
*       // Both parts of the update succeeded.  The user was created
 and
*       // successfully added to a group.
*       break;
*     case PARTIAL:
*       // At least one update succeeded, and at least one failed.  Based on
*       // the configuration of the request, this means that the user was
*       // successfully created but not added to the target group.
*       break;
*   }
* }
* else
* {
*   // The server encountered a failure while attempting to parse or process
*   // the multi-update operation itself and did not attempt to process any
*   // of the changes contained in the request.
* }
* </PRE>
*
* @see  MultiUpdateErrorBehavior
* @see  MultiUpdateExtendedResult
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-

jar/com/unboundid/ldap/sdk/unboundidds/extensions/MultiUpdateExtendedRequest.java
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*/
/**
* This class provides a joined entry, which is a read-only representation of an
* entry that has been joined with a search result entry using the LDAP join
* control.  See the class-level documentation for the
* {@link JoinRequestControl} class for additional information and an example
* demonstrating its use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

```
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Joined entries are encoded as follows:
* <PRE>
*   JoinedEntry ::= SEQUENCE {
*        objectName           LDAPDN,
*        attributes           PartialAttributeList,
*        nestedJoinResults    SEQUENCE OF JoinedEntry OPTIONAL }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinedEntry.java
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/**
* This class provides an implementation of a connection pool health check that
* can display information about the result of a bind operation. It will always
* report information about an unsuccessful bind. It may optionally report
* information about a successful bind, and optionally only if the successful
* bind includes one or more response controls.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* Note that this health check is only intended to generate output when
* appropriate and will never throw an exception to indicate that a connection
* is unusable. If additional health checking is required, then this health
* check may be combined with others via an aggregate health check in a manner
* that ensures this health check will be invoked before any others that may
* throw an exception.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/ReportBindResultLDAPConnectionPoolHealthCheck.java
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*/
/**
* This class provides a data structure with information about recent successful
* and failed login attempts for a user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered
 stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see  GetRecentLoginHistoryRequestControl
* @see  GetRecentLoginHistoryResponseControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/RecentLoginHistory.java
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*/
/**
* This class provides a data structure that holds information about the result
* of attempting validation with a proposed password against a password quality
* requirement.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* If it appears in an LDAP protocol element (e.g., in a password validation
* details response control), then the password quality validation result object
* should have the following ASN.1 encoding:
* <PRE>
*   PasswordQualityRequirementValidationResult ::= SEQUENCE {
*   passwordRequirement   PasswordQualityRequirement,
*   requirementSatisfied   BOOLEAN,
*   additionalInfo   [0] OCTET STRING OPTIONAL }
* </PRE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordQualityRequirementValidationResult.java
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/**
  * The OID for a proprietary control that can be used to indicate that the
  * associated operation should be considered an internal operation that was
  * requested by a method call in the in-memory directory server class rather
  * than from an LDAP client.  It may be used to bypass certain restrictions
  * that might otherwise be enforced (e.g., allowed operation types, write
  * access to NO-USER-MODIFICATION attributes, etc.).
  */
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryRequestHandler.java
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*/
/**
* This class provides a command-line tool that can be used to search the OID
* registry to retrieve information an item with a specified OID or name.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/OIDLookup.java
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*/
/**
* This class provides a data structure that holds information about an audit
* log message that represents an add operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/AddAuditLogMessage.java
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*/
/**
* This class provides an implementation of the stream proxy values extended
* request as used in the Ping Identity, UnboundID, Nokia/Alcatel-Lucent 8661
* Directory Proxy Server.  It may be used to obtain all entry DNs and/or all
* values for one or more attributes for a specified portion of the DIT.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of "1.3.6.1.4.1.30221.2.6.8" and the value
```

```
* is encoded as follows:
* <PRE>
*   StreamProxyValuesRequest ::= SEQUENCE {
*       baseDN               [0] LDAPDN,
*       includeDNs           [1] DNSelection OPTIONAL,
*       attributes           [2] SEQUENCE OF LDAPString OPTIONAL,
*       valuesPerResponse    [3] INTEGER (1 .. 32767) OPTIONAL,
*       backendSets          [4] SEQUENCE OF BackendSetConfig,
*       ... }
*
*   DNSelection ::= SEQUENCE {
*       scope       [0] ENUMERATED {
*           baseObject           (0),
*           singleLevel          (1),
*           wholeSubtree
  (2),
*           subordinateSubtree   (3),
*           ... }
*       relative    [1] BOOLEAN DEFAULT TRUE,
*       ..... }
*
*   BackendSetConfig ::= SEQUENCE {
*       backendSetID      OCTET STRING,
*       backendServers    SEQUENCE OF SEQUENCE {
*           host    OCTET STRING,
*           port    INTEGER (1 .. 65535) } }
* </PRE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamProxyValuesExtendedRequest.java
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*/
/**
* This class provides a response control that may be used to provide the server
* ID of the Directory Server instance that processed the associated request.
* For search operations, each entry and reference returned will include the
* server ID of the server that provided that entry or reference.  For all other
* types of operations, it will be in the {@code LDAPResult} (or appropriate
* subclass) returned for that operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within
 the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.15 and a criticality of
* false.  This control must have a value, which will simply be the string
* representation of the server ID of the associated server.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
```

jar/com/unboundid/ldap/sdk/unboundidds/controls/GetServerIDResponseControl.java
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*/
/**
* This class represents a data structure with information about a notification
* subscription defined in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
* 8661 server instance.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
```

*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/NotificationSubscriptionDetails.java
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```
*/
/**
* This class provides an implementation of a get changelog batch change
* selection criteria value that indicates that the server should only return
* changes which target one or more of the specified attributes.  The changes
* may target other attributes as well, but at least one of the associated
* attributes must be included in the change.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/AnyAttributesChangeSelectionCriteria.java
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*/
/**
  * The quality of protection value that indicates that only authentication is
  * to be performed, with no integrity or confidentiality protection for
  * subsequent communication.
  */
/**
  * The quality of protection value that indicates that confidentiality
  * protection will be provided for subsequent communication after
  * authentication has completed.  This ensures that third-party observers will
  * not be able to decipher communication between the client and server (i.e.,
  * that the communication
 will be encrypted).
  */
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SASLQualityOfProtection.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a bind
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/BindRequestAccessLogMessage.java
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*/
/**
* This class defines a monitor entry that provides general information about a
* Directory Server backend.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature
 enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Information that may be available in a backend monitor entry includes:
* <UL>
*   <LI>The backend ID for the backend.</LI>
*   <LI>The set of base DNs for the backend.</LI>
```

```
*   <LI>The total number of entries in the backend.</LI>
*   <LI>The number of entries in the backend per base DN.</LI>
*   <LI>The writability mode for the backend, which indicates whether it will
*       accept write operations.</LI>
*   <LI>An indication about whether the backend is public (intended to hold
*       user data) or private (intended to hold operational data).</LI>
* </UL>
* The set of backend monitor entries published by the directory server can be
* obtained using the {@link MonitorManager#getBackendMonitorEntries} method.
* Specific methods are available for accessing the associated monitor data
* (e.g., {@link BackendMonitorEntry#getBackendID} to retrieve
 the backend ID),
* and there are also methods for accessing this information in a generic manner
* (e.g., {@link BackendMonitorEntry#getMonitorAttributes} to retrieve all of
* the monitor attributes).  See the {@link MonitorManager} class documentation
* for an example that demonstrates the use of the generic API for accessing
* monitor data.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/BackendMonitorEntry.java
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/**
* This class defines a data structure that will provide information about
* warnings that may affect an account's usability.  It includes a number of
* predefined warning types, but also allows for the possibility of additional
* warning types that have not been defined.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateAccountUsabilityWarning.java
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*/
/**
* This class performs the work needed to process a search operation as part of
* manage-account processing.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountSearchOperation.java
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/**
* This class provides an implementation of a post-connect processor that can be
* used to start an administrative session on a connection that is meant to be
* part of a connection pool.  If this is to be used in conjunction with other
* post-connect processors (via the
* {@link com.unboundid.ldap.sdk.AggregatePostConnectProcessor}), then the
* start administrative session processor should generally be invoked first
* (even before the
* {@link com.unboundid.ldap.sdk.StartTLSPostConnectProcessor}) to ensure
 that
* any interaction with the server will be able to make use of the dedicated
* worker thread pool the server sets aside for operations using an
* administrative session.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartAdministrativeSessionPostConnectProcessor.java
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*/
/**
* This class provides an intermediate response listener that will be used to
* handle output, archive fragment, and other types of intermediate response
* messages returned to the client in the course of processing a collect support
* data extended operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/CollectSupportDataIRListener.java

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/**
* This class provides a utility that may be used to obtain information that may
* be used to create LDAP connections to one or more servers from a definition
* contained in a JSON object.  This makes it easier to create applications that
* provide the information necessary for creating LDAP connections and
* connection pools in a JSON-formatted configuration file.
* <BR><BR>
* The JSON-based specification is organized into five sections:
* <OL>
*   <LI>
*     A "server-details" section that provides
 information about the directory
*     server(s) to access.  The specification supports accessing a single
*     server, as well as a number of schemes for establishing connections
*     across multiple servers.
*   </LI>
*   <LI>
*     A "communication-security" section that provides information that may be
*     used to secure communication using SSL or StartTLS.
*   </LI>
*   <LI>
*     A "connection-options" section that can be used customize a number of
*     connection-related options, like connect and response timeouts, whether
*     to follow referrals, whether to retrieve schema from the backend server
*     for client-side use, and whether to use synchronous mode for more
*     efficient communication if connections will not be used in an
*     asynchronous manner.
*   </LI>
*   <LI>
*     An "authentication-details" section that provides information for
*     authenticating connections using a number of mechanisms.
*   </LI>
*   <LI>
*     A "connection-pool-options"
```

```
 section that provides information to use to
*     customize the behavior to use for connection pools created from this
*     specification.
*   </LI>
* </OL>
* Each of these sections will be described in more detail below.
* <BR><BR>
* <H2>The "server-details" Section</H2>
* The JSON object that comprises the LDAP connection details specification must
* have a top-level "server-details" field whose value is a JSON object that
* provides information about the server(s) to which connections may be
* established.  The value of the "server-details" field must itself be a JSON
* object, and that object must have exactly one field, which depends on the
* mechanism that the LDAP SDK should use to select the target directory
* servers.
* <BR><BR>
* <B>The "server-details" Section for Connecting to a Single Server</B>
* <BR>
* When establishing a connection to a single server, the "server-details"
* value should be a JSON object that contains a "single-server" field
 whose
* value is a JSON object with "address" and "port" fields.  For example, the
* following is a valid specification that may be used to establish connections
* to the server at ldap.example.com on port 389:
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
*         "address":"ldap.example.com",
*         "port":389
*       }
*     }
*   }
* </PRE>
* <BR>
* <B>The "server-details" Section for Selecting from a Set of Servers in a
* Round-Robin Manner</B>
* <BR>
* If you have a set of servers that you want to connect to in a round-robin
* manner (in which the LDAP SDK will maintain a circular list of servers and
* each new connection will go to the next server in the list), the
* "server-details" value should be a JSON object that contains a
* "round-robin-set" field whose value is a JSON object that contains a "server"
* field with an array of JSON objects, each of which contains "address" and
* "port" fields for a target
```

server. For example, the following is a valid
* specification that may be used to establish connections across the servers
* ldap1.example.com, ldap2.example.com, and ldap3.example.com, all on port 389:
* <PRE>
*   {
*   "server-details":
*   {
*   "round-robin-set":
*   {
*   "servers":
*   [
*   {
*   "address":"ldap1.example.com",
*   "port":389
*   },
*   {
*   "address":"ldap2.example.com",
*   "port":389
*   },
*   {
*   "address":"ldap2.example.com",
*   "port":389
*   }
*   ]
*   }
*   }
*   }
* </PRE>
*
* <B>The "server-details" Section for Selecting from a Set of Servers in a
* Fewest Connections Manner</B>
*
* If you have a set of servers that you want to connect to in a manner that
* selects the server with the fewest established connections (at least
* connections created from this specification),
 the "server-details" value
* should be a JSON object that contains a "fewest-connections-set" field whose
* value is a JSON object that contains a "server" field with an array of JSON
* objects, each of which contains "address" and "port" fields for a target
* server. For example, the following is a valid specification that may be used
* to establish connections across the servers ldap1.example.com,
* ldap2.example.com, and ldap3.example.com, all on port 389:
* <PRE>
*   {
*   "server-details":
*   {
*   "fewest-connections-set":
*   {

```
*         "servers":
*         [
*           {
*             "address":"ldap1.example.com",
*             "port":389
*           },
*           {
*             "address":"ldap2.example.com",
*             "port":389
*           },
*           {
*             "address":"ldap2.example.com",
*             "port":389
*           }
*         ]
*       }
*     }
*   }
* </PRE>
* <BR>
* <B>The "server-details"
 Section for Selecting from a Set of Servers in a
* Fastest Connect Manner</B>
* <BR>
* If you have a set of servers that you want to connect to in a manner that
* attempts to minimize the time required to establish new connections (by
* simultaneously attempting to create connections to every server in the set
* and taking the first connection to be established), the "server-details"
* value should be a JSON object that contains a "fastest-connect-set" field
* whose value is a JSON object that contains a "server" field with an array of
* JSON objects, each of which contains "address" and "port" fields for a target
* server.  For example, the following is a valid specification that may be used
* to establish connections across the servers ldap1.example.com,
* ldap2.example.com, and ldap3.example.com, all on port 389:
* <PRE>
*   {
*     "server-details":
*     {
*       "fastest-connect-set":
*       {
*         "servers":
*         [
*           {
*
      "address":"ldap1.example.com",
*             "port":389
*           },
*           {
```

```
*            "address":"ldap2.example.com",
*            "port":389
*          },
*          {
*            "address":"ldap2.example.com",
*            "port":389
*          }
*        ]
*      }
*    }
*  }
* </PRE>
* <BR>
* <B>The "server-details" Section for Selecting from a Set of Servers in a
* Failover Manner</B>
* <BR>
* If you have a set of servers that you want to connect to in a manner that
* attempts to consistently establish connections to the same server (as long as
* it is available, and use a consistent failover order if the preferred server
* isn't available), the "server-details" value should be a JSON object that
* contains a "failover-set" field whose value is a JSON object that contains a
* "failover-order" field that provides a list of the details to use in order
* to establish the connections.  For example, the following is a valid
* specification
 that may be used to always try to establish connections to
* ldap1.example.com:389, then try ldap2.example.com:389, and then try
* ldap3.example.com:389:
* <PRE>
*  {
*    "server-details":
*    {
*      "failover-set":
*      {
*        "failover-order":
*        [
*          {
*            "single-server":
*            {
*              "address":"ldap1.example.com",
*              "port":389
*            }
*          },
*          {
*            "single-server":
*            {
*              "address":"ldap2.example.com",
*              "port":389
*            }
```

```
*          },
*          {
*            "single-server":
*            {
*              "address":"ldap2.example.com",
*              "port":389
*            }
*          }
*        ]
*      }
*    }
*  }
* </PRE>
* The failover set actually has the ability to perform failover across any kind
* of set.  This is a powerful capability that can be useful
 to define a
* hierarchy of sets, for example for sets referring to servers in different
* data centers (e.g., to prefer connecting to one of the servers in the local
* data center over servers in a remote data center).  For example, the
* following is a valid specification that may be used to connect to the server
* with the fewest connections in the east data center, but if no east servers
* are available then it will fail over to select the server with the fewest
* connections in the west data center:
* <PRE>
*  {
*    "server-details":
*    {
*      "failover-set":
*      {
*        "failover-order":
*        [
*          {
*            "fewest-connections-set":
*            {
*              "servers":
*              [
*                {
*                  "address":"ldap1.east.example.com",
*                  "port":389
*                },
*                {
*                  "address":"ldap2.east.example.com",
*                  "port":389
 *                }
*              ]
*            }
*          },
*          {
```

```
*           "fewest-connections-set":
*           {
*             "servers":
*             [
*               {
*                 "address":"ldap1.west.example.com",
*                 "port":389
*               },
*               {
*                 "address":"ldap2.west.example.com",
*                 "port":389
*               }
*             ]
*           }
*         }
*       ]
*     }
*   }
*   }
* </PRE>
* For connections that are part of a connection pool, failover sets have the
* ability to assign a different maximum connection age to connections created
* to a non-preferred server.  This can help allow failover connections to be
* migrated back to the preferred server more quickly once that server is
* available again.  If you wish to specify an alternate maximum connection age
* for connections to a non-preferred server,
 you may include the
* "maximum-failover-connection-age-millis" field in the "failover-set" object.
* The value of this field should be a number that is greater than zero to
* specify the maximum age (in milliseconds) for those connections, or a value
* of zero to indicate that they should not be subject to a maximum age.  If
* this field is not present, then these connections will be assigned the
* default maximum connection age configured for the pool.
* <BR><BR>
* <H2>The "communication-security" Section</H2>
* This section may be used to provide information about the type of security to
* use to protect communication with directory servers.  If the specification
* includes information about multiple servers, then all servers will use the
* same type of security.
* <BR><BR>
* If present, the "communication-security" field should have a value that is a
* JSON object.  This object must have a "security-type" field with one of the
* following values:
* <UL>
*   <LI>
 *     "none" -- Indicates that no communication security should be used.  The
*     communication will not be encrypted.
*   </LI>
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*   <LI>
*    "SSL" -- Indicates that all communication should be encrypted with the
*    SSL (secure sockets layer) protocol, or more likely its more secure
*    successor TLS (transport-layer security) protocol.  You can also specify
*    a value of "TLS" to use this type of security.
*   </LI>
*   <LI>
*    "StartTLS" -- Indicates that the connection will be initially established
*    in a non-secure manner, but will be immediately secured with the StartTLS
*    extended operation.
*   </LI>
* </UL>
* If you do not wish to use any form of communication security, then the
* "security-type" field is the only one that should be present.  For example,
* the following is a valid specification that will use unencrypted
* communication to the server ldap.example.com on port 389:
* <PRE>
*   {
*    "server-details":
*    {
*
  "single-server":
*      {
*        "address":"ldap.example.com",
*        "port":389
*      }
*    },
*    "communication-security":
*    {
*      "security-type":"none"
*    }
*   }
* </PRE>
* <BR>
* If you wish to secure the communication with either SSL or StartTLS, then
* there are a number of other options that may be specified using fields in the
* "communication-security" object.  Those options fall into two basic
* categories:  fields that provide information about how the client should
* determine whether to trust the certificate presented by the server, and
* fields that provide information about whether the client should present its
* own certificate to the server.  The fields related to client trust include:
* <UL>
*   <LI>
*    "trust-all-certificates" -- Indicates whether the client should blindly
*    trust any certificate that the server presents to it.  Using blind trust
*    is convenient for testing and troubleshooting purposes,
 but is not
*    recommended for production use because it can leave the communication
```

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*     susceptible to man-in-the-middle attacks.  If this field is present, then
*     it should have a boolean value.  If it is not present, a default value
*     of {@code false} will be assumed.  If it is present with a value of
*     {@code true}, then the "use-jvm-default-trust-store", "trust-store-file",
*     "trust-store-type", "trust-store-pin", and "trust-store-pin-file" fields
*     should not be used.
*   </LI>
*   <LI>
*     "use-jvm-default-trust-store" -- Indicates that certificates signed by an
*     authority listed in the JVM's default set of trusted issuers should be
*     trusted.  If this field is present, it should have a boolean value.  The
*     JVM-default trust store may be used on its own or in conjunction with a
*     trust store file.
*   </LI>
*   <LI>
*     "trust-store-file" -- Specifies the path to a trust store file (in JKS
*     or PKCS#12 format).
  If this is present, then the presented certificate
*     will only be trusted if the trust store file contains information about
*     all of the issuers in the certificate chain.
*   </LI>
*   <LI>
*     "trust-store-type"  -- Indicates the format for the trust store file.
*     If this is present, then its value should be a string that is either
*     "JKS" or "PKCS12".  If it is not present, then a default trust store type
*     of "JKS" will be assumed.
*   </LI>
*   <LI>
*     "trust-store-pin" -- Specifies the PIN that should be used to access the
*     contents of the trust store.  If this field is present, then its value
*     should be a string that is the clear-text PIN.  If it is not present,
*     then the PIN may be read from a file specified using the
*     "trust-store-pin-file" field.  If neither the "trust-store-pin" field nor
*     the "trust-store-pin-file" field is present, then no PIN will be used
*     when attempting to access the trust store (and
  in many cases, no trust
*     store PIN will be required).
*   </LI>
*   <LI>
*     "trust-store-pin-file" -- Specifies the path to a file that contains the
*     PIN to use to access the contents of the trust store.  If this field is
*     present, then its value must be the path to a file containing a single
*     line, which is the clear-text PIN.  If it is not present, then the PIN
*     may be obtained from the "trust-store-pin" field.  If neither the
*     "trust-store-pin" field nor the "trust-store-pin-file" field is present,
*     then no PIN will be used when attempting to access the trust store (and
*     in many cases, no trust store PIN will be required).
*   </LI>
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*   <LI>
*     "trust-expired-certificates" -- Indicates whether the client should
*     trust certificates that are not yet valid or that have expired.  If this
*     field is present, then its value must be a boolean.  If the value is
*     {@code true}, then the certificate validity dates
 will not be taken into
*     consideration when deciding whether to trust a certificate.  If the value
*     is {@code false}, then any certificate whose validity window does not
*     include the current time will not be trusted (even if
*     "trust-all-certificates" is {@code true}).  If this field is not present,
*     then a default of {@code false} will be assumed.
*   </LI>
*   <LI>
*     "verify-address-in-certificate" -- Indicates whether the client should
*     examine the information contained in the certificate to verify that the
*     address the client used to connect to the server matches address
*     information contained in the certificate (whether in the CN attribute of
*     the certificate's subject, or in a subjectAltName extension of type
*     dNSName, uniformResourceIdentifier, or iPAddress).  If this field is
*     present, then its value must be a boolean.  If it is absent, then a
*     default value of {@code false} will be assumed.
*   </LI>
 * </UL>
* If none of the above fields are provided, then the JVM's default trust
* mechanism will be used.  This will generally only trust certificates signed
* by a well-known certification authority.
* <BR><BR>
* The fields related to presenting a client certificate include:
* <UL>
*   <LI>
*     "key-store-file" -- Specifies the path to a key store file (in JKS or
*     PKCS#12 format) that contains the certificate that the client should
*     present to the server.  If this is present, then the value must be a
*     string that is the path to the key store file.  If it is not present,
*     then no key store file will be used.
*   </LI>
*   <LI>
*     "key-store-type" -- Specifies the type of key store that should be used.
*     If this is present, then its value must be a string, and that string
*     should be "JKS" or "PKCS12" (if a "key-store-file" value is present), or
*     "PKCS11" (if the client certificate is contained in a security module
*     accessible
 via the PKCS#11 API.  If this field is not present but a
*     "key-store-file" value is provided, then a default value of "JKS" will be
*     assumed.
*   </LI>
*   <LI>
*     "key-store-pin" -- Specifies the PIN that should be used to access the
```

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*     contents of the key store.  If this field is present, then its value
*     should be a string that is the clear-text PIN.  If it is not present,
*     then the PIN may be read from a file specified using the
*     "key-store-pin-file" field.  If neither the "key-store-pin" field nor the
*     "key-store-pin-file" field is present, then no PIN will be used when
*     attempting to access the key store (although key stores generally require
*     a PIN in order to access private key information).
*   </LI>
*   <LI>
*     "key-store-pin-file" -- Specifies the path to a file containing the PIN
*     that should be used to access the contents of the key store.  If this
*     field is present, then its value should be the
 path to a file containing
*     the clear-text PIN.  If it is not present, then the PIN may be obtained
*     from the "key-store-pin" field.  If neither the "key-store-pin" field nor
*     the "key-store-pin-file" field is present, then no PIN will be used when
*     attempting to access the key store (although key stores generally require
*     a PIN in order to access private key information).
*   </LI>
*   <LI>
*     "client-certificate-alias" -- Specifies the alias (also known as the
*     nickname) of the client certificate that should be presented to the
*     directory server.  If this field is present, then its value should be a
*     string that is the alias for a valid certificate that exists in the
*     key store.  If this field is not present, then the JVM will automatically
*     attempt to select a suitable client certificate.
*   </LI>
* </UL>
* If none of the above fields are provided, then the client will not attempt to
* present a certificate to the
 server.
* <BR><BR>
* The following example demonstrates a simple specification that can be used to
* establish SSL-based connections to a single server.  The client will trust
* any certificates signed by one of the JVM's default issuers, or any
* certificate contained in or signed by a certificate contained in the
* specified trust store file.  As no key store is provided, the client will not
* attempt to present its own certificate to the server.
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
*         "address":"ldap.example.com",
*         "port":636
*       }
*     },
```

```
*     "communication-security":
*     {
*       "security-type":"SSL",
*       "use-jvm-default-trust-store":true,
*       "trust-store-file":"/path/to/trust-store.jks",
*       "trust-store-type":"JKS",
*       "verify-address-in-certificate":true
*     }
*   }
* </PRE>
* <BR>
* The "communication-security" field is optional, and if it is omitted from
 the
* specification then it will be equivalent to including it with a
* "security-type" value of "none".
* <BR><BR>
* <H2>The "connection-options" Section</H2>
* The "connection-options" section may be used to provide information about a
* number of settings that may be used in the course of establishing a
* connection, or that may affect the behavior of the connection.  The value
* of the "connection-options" field must be a JSON object, and the following
* fields may appear in that object:
* <UL>
*   <LI>
*     "connect-timeout-millis" -- Specifies the maximum length of time (in
*     milliseconds) that a connection attempt may block while waiting for the
*     connection to be established.  If this field is present, then its value
*     must be a positive integer to specify the timeout, or a value of zero to
*     indicate that no timeout should be enforced by the LDAP SDK.  Note that
*     the underlying operating system may enforce its own connect timeout, and
*
     if that value is smaller than the LDAP SDK timeout then the operating
*     system's timeout value will be used.  If this field is not present, then
*     a default of 60000 (1 minute) will be used.
*   </LI>
*   <LI>
*     "default-response-timeout-millis" -- Specifies the default timeout (in
*     milliseconds) that will be used when waiting for a response to a request
*     sent to the server.  If this field is present, then its value must be a
*     positive integer to specify the timeout, or a value of zero to indicate
*     that no timeout should be enforced.  If this field is not present, then a
*     default of 300000 (5 minutes) will be used.  Note that this default
*     response timeout can be overridden on a per-request basis using the
*     {@code setResponseTimeoutMillis} method provided by the request object.
*   </LI>
*   <LI>
*     "follow-referrals" -- Indicates whether the LDAP SDK should automatically
*     attempt to follow any referrals that are
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 returned during processing.  If
*     this field is present, the value should be a boolean.  If it is absent,
*     then a default  of {@code false} will be assumed.
*   </LI>
*   <LI>
*     "use-schema" -- Indicates whether the LDAP SDK should attempt to retrieve
*     schema information from the directory server upon establishing a
*     connection to that server, and should then use that schema information
*     for more accurate client-side matching operations.  If present, this
*     field should have a boolean value.  If it is not present, then a default
*     value of {@code false} will be used.
*   </LI>
*   <LI>
*     "use-synchronous-mode" -- Indicates whether connections should be created
*     in synchronous mode, which may be more efficient and less resource
*     intensive than connections not created in synchronous mode, but may only
*     be used if no attempt will be made to issue asynchronous requests over
*     the connection, or to attempt to use
 the connection simultaneously by
*     multiple threads.  If this field is present, then its value must be a
*     boolean.  If it is not present, then a default value of {@code false}
*     will be used.
*   </LI>
* </UL>
* <BR>
* The "connection-options" field is optional, and if it is omitted from the
* specification then the default values will be used for all options.
* <BR><BR>
* <H2>The "authentication-details" Section</H2>
* The "authentication-details" section may be used to provide information for
* authenticating the connections that are created.  The value of the
* "authentication-details" field must be a JSON object, and it must include an
* "authentication-type" field to specify the mechanism to use to authenticate.
* The selected authentication type dictates the other fields that may be
* present in the object.
* <BR><BR>
* <B>The "none" Authentication Type</B>
* <BR>
* If no authentication should be performed, then the "authentication-type"
* value
 should be "none".  No other fields should be specified in the
* "authentication-details".  For example:
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
```

```
*         "address":"ldap.example.com",
*         "port":389
*       }
*     },
*     "authentication-details":
*     {
*       "authentication-type":"none"
*     }
*   }
* </PRE>
* <BR>
* <B>The "simple" Authentication Type</B>
* <BR>
* If you wish to authenticate connections with an LDAP simple bind, then you
* can specify an "authentication-type" value of "simple".  The following
* additional fields may be included in the "authentication-details" object for
* this authentication type:
* <UL>
*   <LI>
*     "dn" -- The DN to use to bind to the server.  This field must be present,
*     and its value must be a string containing the bind DN, or an empty string
*     to indicate anonymous simple authentication.
*   </LI>
*   <LI>
*     "password" -- The password to use to
 bind to the server.  If this field
*     is present, then its value must be a string that contains the clear-text
*     password, or an empty string to indicate anonymous simple
*     authentication.  If it is not provided, then the "password-file" field
*     must be used to specify the path to a file containing the bind password.
*   </LI>
*   <LI>
*     "password-file" -- The path to a file containing the password to use to
*     bind to the server.  If this field is present, then its value must be a
*     string that represents the path to a file containing a single line that
*     contains the clear-text password.  If it is not provided, then the
*     "password" field must be used to specify the password.
*   </LI>
* </UL>
* For example:
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
*         "address":"ldap.example.com",
*         "port":389
```

```
*      }
*    },
*    "authentication-details":
*    {
*      "authentication-type":"simple",
 *      "dn":"uid=john.doe,ou=People,dc=example,dc=com",
*      "password-file":"/path/to/password.txt"
*    }
*  }
* </PRE>
* <BR>
* <B>The "CRAM-MD5" Authentication Type</B>
* If you wish to authenticate connections with the CRAM-MD5 SASL mechanism,
* then you can specify an "authentication-type" value of "CRAM-MD5".  The
* following additional fields may be included in the "authentication-details"
* object for this authentication type:
* <UL>
*  <LI>
*    "authentication-id" -- The authentication ID to use to bind.  This field
*    must be present, and its value must be a string containing the
*    authentication ID.  Authentication ID values typically take the form
*    "dn:" followed by the user DN, or "u:" followed by the username.
*  </LI>
*  <LI>
*    "password" -- The password to use to bind to the server.  If this field
*    is present, then its value must be a string that contains the clear-text
*    password, or an empty
 string to indicate anonymous simple
*    authentication.  If it is not provided, then the "password-file" field
*    must be used to specify the path to a file containing the bind password.
*  </LI>
*  <LI>
*    "password-file" -- The path to a file containing the password to use to
*    bind to the server.  If this field is present, then its value must be a
*    string that represents the path to a file containing a single line that
*    contains the clear-text password.  If it is not provided, then the
*    "password" field must be used to specify the password.
*  </LI>
* </UL>
* For Example:
* <PRE>
*  {
*    "server-details":
*    {
*      "single-server":
*      {
*        "address":"ldap.example.com",
*        "port":389
```

```
*      }
*    },
*    "authentication-details":
*    {
*      "authentication-type":"CRAM-MD5",
*      "authentication-id":"u:john.doe",
*      "password-file":"/path/to/password.txt"
*    }
*  }
* </PRE>
 * <BR>
* <B>The "DIGEST-MD5" Authentication Type</B>
* If you wish to authenticate connections with the DIGEST-MD5 SASL mechanism,
* then you can specify an "authentication-type" value of "DIGEST-MD5".  The
* following additional fields may be included in the "authentication-details"
* object for this authentication type:
* <UL>
*  <LI>
*    "authentication-id" -- The authentication ID to use to bind.  This field
*    must be present, and its value must be a string containing the
*    authentication ID.  Authentication ID values typically take the form
*    "dn:" followed by the user DN, or "u:" followed by the username.
*  </LI>
*  <LI>
*    "authorization-id" -- The alternate authorization identity to use for the
*    connection after the bind has completed.  If present, the value must be
*    a string containing the desired authorization identity.  If this field is
*    absent, then no alternate authorization identity will be used.
*  </LI>
*  <LI>
 *    "password" -- The password to use to bind to the server.  If this field
*    is present, then its value must be a string that contains the clear-text
*    password, or an empty string to indicate anonymous simple
*    authentication.  If it is not provided, then the "password-file" field
*    must be used to specify the path to a file containing the bind password.
*  </LI>
*  <LI>
*    "password-file" -- The path to a file containing the password to use to
*    bind to the server.  If this field is present, then its value must be a
*    string that represents the path to a file containing a single line that
*    contains the clear-text password.  If it is not provided, then the
*    "password" field must be used to specify the password.
*  </LI>
*  <LI>
*    "realm" -- The realm to use for the bind request.  If this field is
*    present, then its value must be a string containing the name of the
*    realm.  If it is not provided, then the realm
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will not be included in the
*   bind request.
*   </LI>
*   <LI>
*   "qop" -- The allowed quality of protection value(s) that may be used for
*   the bind operation. If this field is present, then its value may be a
*   single string or an array of strings indicating the allowed QoP values.
*   Allowed values include "auth" (for just authentication), "auth-int" (for
*   authentication followed by integrity protection for subsequent
*   communication on the connection), and "auth-conf" (for authentication
*   followed by confidentiality for subsequent communication on the
*   connection). If this field is not present, then a default value of
*   "auth" will be assumed.
*   </LI>
* </UL>
* For Example:
* <PRE>
*   {
*   "server-details":
*   {
*   "single-server":
*   {
*   "address":"ldap.example.com",
*   "port":389
*   }
*   },
*   "authentication-details":
*   {
*   "authentication-type":"DIGEST-MD5",
*   "authentication-id":"u:john.doe",
*   "password-file":"/path/to/password.txt"
*   }
*   }
* </PRE>
*
* <B>The "EXTERNAL" Authentication Type</B>
* If you wish to authenticate connections with the EXTERNAL SASL mechanism,
* then you can specify an "authentication-type" value of "EXTERNAL". The
* connection must be secured with SSL or StartTLS, and the following additional
* field may be present in the "authentication-details" object:
* <UL>
*   <LI>
*   "authorization-id" -- The authorization identity for the bind request.
*   If this field is present, then it must be a string containing the
*   desired authorization ID, or an empty string if the server should
*   determine the authorization identity. If this field is omitted, then
*   the bind request will not include any SASL credentials, which may be
*   required for use with some servers that cannot handle the possibility of

```
*     an authorization ID in the bind request.
*
   </LI>
* </UL>
* For Example:
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
*         "address":"ldap.example.com",
*         "port":636
*       }
*     },
*     "communication-security":
*     {
*       "security-type":"SSL",
*       "use-jvm-default-trust-store":true,
*       "trust-store-file":"/path/to/trust-store.jks",
*       "trust-store-type":"JKS",
*       "verify-address-in-certificate":true
*     },
*     "authentication-details":
*     {
*       "authentication-type":"EXTERNAL",
*       "authorization-id":""
*     }
*   }
* </PRE>
* <BR>
* <B>The "GSSAPI" Authentication Type</B>
* If you wish to authenticate connections with the GSSAPI SASL mechanism,
* then you can specify an "authentication-type" value of "GSSAPI".  The
* following additional fields may be included in the "authentication-details"
* object for this authentication type:
* <UL>
*   <LI>
*     "authentication-id" -- The authentication ID
 to use to bind.  This field
*     must be present, and its value must be a string containing the
*     authentication ID.  Authentication ID values for a GSSAPI bind request
*     are typically the Kerberos principal for the user to authenticate.
*   </LI>
*   <LI>
*     "authorization-id" -- The alternate authorization identity to use for the
*     connection after the bind has completed.  If present, the value must be
*     a string containing the desired authorization identity.  If this field is
```

```
*     absent, then no alternate authorization identity will be used.
*   </LI>
*   <LI>
*     "password" -- The password to use to bind to the server.  If this field
*     is present, then its value must be a string that contains the clear-text
*     password, or an empty string to indicate anonymous simple
*     authentication.  If it is not provided, then the "password-file" field
*     may be used to specify the path to a file containing the bind password.
*     If authentication
 will require the use of cached credentials, then the
*     password may be omitted.
*   </LI>
*   <LI>
*     "password-file" -- The path to a file containing the password to use to
*     bind to the server.  If this field is present, then its value must be a
*     string that represents the path to a file containing a single line that
*     contains the clear-text password.  If it is not provided, then the
*     "password" field may be used to specify the password.  If authentication
*     will require the use of cached credentials, then the password may be
*     omitted.
*   </LI>
*   <LI>
*     "realm" -- The realm to use for the bind request.  If this field is
*     present, then its value must be a string containing the name of the
*     realm.  If it is not provided, then the JVM will attempt to determine the
*     realm from the underlying system configuration.
*   </LI>
*   <LI>
*     "qop" -- The allowed quality of protection value(s) that may be used
 for
*     the bind operation.  If this field is present, then its value may be a
*     single string or an array of strings indicating the allowed QoP values.
*     Allowed values include "auth" (for just authentication), "auth-int" (for
*     authentication followed by integrity protection for subsequent
*     communication on the connection), and "auth-conf" (for authentication
*     followed by confidentiality for subsequent communication on the
*     connection).  If this field is not present, then a default value of
*     "auth" will be assumed.
*   </LI>
*   <LI>
*     "kdc-address" -- The address of the Kerberos KDC to use during
*     authentication.  If this field is present, then its value must be a
*     string containing the target address.  If it is not provided, then the
*     JVM will attempt to determine the address of the KDC from the underlying
*     system configuration.
*   </LI>
*   <LI>
*     "config-file-path" --  The path to a JAAS configuration
```

file to use for
* bind processing. If this field is present, then its value must be a
* string containing the path to a valid JAAS configuration file. If it is
* not provided, a temporary JAAS configuration file will be created for the
* bind operation.
* </LI>
* <LI>
* "renew-tgt" -- Indicates whether successful authentication should attempt
* to renew the ticket-granting ticket for an existing session. If this
* field is present, then its value must be a boolean. If it is not
* provided, then a default of {@code false} will be assumed.
* </LI>
* <LI>
* "require-cached-credentials" -- Indicates whether the authentication
* process should require the use of cached credentials leveraged from an
* existing Kerberos session rather than try to create a new session. if
* this field is present, then its value must be a boolean. If it is not
* provided, then a default of {@code false} will be assumed.
*
</LI>
* <LI>
* "use-ticket-cache" -- Indicates whether the authentication process should
* leverage a ticket cache in order to leverage an existing Kerberos
* session if the user has already authenticated to the KDC. If present,
* then its value must be a boolean. If it is not provided, then a default
* of {@code true} will be used.
* </LI>
* <LI>
* "ticket-cache-path" -- Specifies the path to the Kerberos ticket cache to
* use. If this is provided, its value must be a string with the path to
* the desired ticket cache. If it is not provided, then the JVM will
* attempt to determine the appropriate ticket cache from the underlying
* system configuration.
* </LI>
* <LI>
* "use-subject-credentials-only" -- Indicates whether authentication should
* require the client will be required to use credentials that match the
* current subject. If it is provided, then the value must be a boolean.
* If it is not
provided, then a default of {@code true} will be assumed.
* </LI>
* </UL>
* For Example:
* <PRE>
* {
* "server-details":
* {
* "single-server":

```
*      {
*        "address":"ldap.example.com",
*        "port":389
*      }
*    },
*    "authentication-details":
*    {
*      "authentication-type":"GSSAPI",
*      "authentication-id":"john.doe@EXAMPLE.COM",
*      "password-file":"/path/to/password.txt",
*      "renew-tgt":true
*    }
*  }
* </PRE>
* <BR>
* <B>The "PLAIN" Authentication Type</B>
* If you wish to authenticate connections with the PLAIN SASL mechanism,
* then you can specify an "authentication-type" value of "PLAIN".  The
* following additional fields may be included in the "authentication-details"
* object for this authentication type:
* <UL>
*  <LI>
*    "authentication-id" -- The authentication ID to use to bind.  This field
*    must be present, and its value must be a string containing the
*    authentication
 ID.  Authentication ID values typically take the form
*    "dn:" followed by the user DN, or "u:" followed by the username.
*  </LI>
*  <LI>
*    "authorization-id" -- The alternate authorization identity to use for the
*    connection after the bind has completed.  If present, the value must be
*    a string containing the desired authorization identity.  If this field is
*    absent, then no alternate authorization identity will be used.
*  </LI>
*  <LI>
*    "password" -- The password to use to bind to the server.  If this field
*    is present, then its value must be a string that contains the clear-text
*    password, or an empty string to indicate anonymous simple
*    authentication.  If it is not provided, then the "password-file" field
*    must be used to specify the path to a file containing the bind password.
*  </LI>
*  <LI>
*    "password-file" -- The path to a file containing the password to use to
*    bind to the server.
 If this field is present, then its value must be a
*    string that represents the path to a file containing a single line that
*    contains the clear-text password.  If it is not provided, then the
*    "password" field must be used to specify the password.
```

```
*   </LI>
* </UL>
* For Example:
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
*         "address":"ldap.example.com",
*         "port":389
*       }
*     },
*     "authentication-details":
*     {
*       "authentication-type":"PLAIN",
*       "authentication-id":"dn:uid=john.doe,ou=People,dc=example,dc=com",
*       "password-file":"/path/to/password.txt"
*     }
*   }
* </PRE>
* <BR>
* The "authentication-details" field is optional, and if it is omitted from the
*  specification then no authentication will be performed.
* <BR><BR>
* <H2>The "connection-pool-options" Section</H2>
* The "connection-pool-options" section may be used to provide information
* about
 a number of settings that may be used in the course of creating or
* maintaining a connection pool.  The value of the "connection-pool-options"
* field must be a JSON object, and the following fields may appear in that
* object:
* <UL>
*   <LI>
*     "create-if-necessary" -- Indicates whether the connection pool should
*     create a new connection if one is needed but none are available.  If
*     present, the value must be a boolean.  If it is absent, then a default
*     of {@code true} will be assumed.
*   </LI>
*   <LI>
*     "health-check-get-entry-dn" -- The DN of an entry that should be
*     retrieved during health check processing.  If present, the value must be
*     a string that represents the DN of the entry to retrieve, or an empty
*     string to indicate that the server root DSE should be retrieved.  If this
*     field is absent, then no entry will be retrieved during health check
*     processing.
*   </LI>
*   <LI>
```

```
*     "health-check-get-entry-maximum-response-time-millis"
 -- The maximum
*     length of time in milliseconds to wait for the entry to be returned in a
*     get entry health check.  If present, the value must be a positive
*     integer.  If it is not provided, then a default of 10000 (ten seconds)
*     will be used.
*   </LI>
*   <LI>
*     "initial-connect-threads" -- The number of threads to use when creating
*     the initial set of connections for the pool.  If this field is present,
*     then the value must be a positive integer, with a value of one indicating
*     that connection should be created in a single-threaded manner, and a
*     value greater than one indicating that the initial connections should be
*     established in parallel.  If it is not provided, then a default of one
*     will be used.
*   </LI>
*   <LI>
*     "invoke-background-health-checks" -- Indicates whether the connection
*     pool should periodically invoke health check processing on idle
*     connections.
  If this field is present, then its value must be a boolean.
*     If it is not present, then a default of {@code true} will be assumed.
*   </LI>
*   <LI>
*     "invoke-checkout-health-checks" -- Indicates whether the connection pool
*     should invoke health check processing on connections just before they are
*     checked out of the pool to ensure that they are valid.  If this field is
*     present, then its value must be a boolean.  If it is not present, then a
*     default of {@code false} will be assumed.
*   </LI>
*   <LI>
*     "invoke-create-health-checks" -- Indicates whether the connection pool
*     should invoke health check processing on connections just after they are
*     created.  If this field is present, then its value must be a boolean.  If
*     it is not present, then a default of {@code false} will be assumed.
*   </LI>
*   <LI>
*     "invoke-authentication-health-checks" -- Indicates whether the connection
*     pool should invoke health
  check processing on connections just after they
*     have been authenticated.  This includes after a successful bind on a
*     newly-created connection, and after calls to the connection pool's
*     {@code bindAndRevertAuthentication} and
*     {@code releaseAndReAuthenticateConnection} methods.  If this field is
*     present, then its value must be a boolean.  If it is not present, then a
*     default of {@code false} will be assumed.
*   </LI>
*   <LI>
```

```
*     "invoke-exception-health-checks" -- Indicates whether the connection pool
*     should invoke health check processing on connections just after an
*     exception is caught that might indicate that the connection is no longer
*     valid.  Note that this only applies to exceptions caught during
*     operations processed directly against the connection pool and not to
*     exceptions caught on a connection checked out of the pool.  If this field
*     is present, then its value must be a boolean.  If it is not
 present, then
*     a default of {@code true} will be assumed.
*   </LI>
*   <LI>
*     "invoke-release-health-checks" -- Indicates whether the connection pool
*     should invoke health check processing on connections just before they are
*     released back to the pool to ensure that they are valid.  If this field
*     is present, then its value must be a boolean.  If it is not present, then
*     a default of {@code false} will be assumed.
*   </LI>
*   <LI>
*     "maximum-connection-age-millis" -- Specifies the maximum length of time
*     (in milliseconds) that a connection should be allowed to remain
*     established before it is eligible to be closed and replaced with a
*     newly-created connection.  If present, then the value must be a positive
*     integer to specify the maximum age, or zero to indicate that no maximum
*     age should be applied.  If it is not present, then a default value of
*     zero will be used.
*   </LI>
*   <LI>
*     "maximum-defunct-replacement-connection-age-millis"
 -- Specifies the
*     maximum connection age (in milliseconds) that should be used for
*     connections created to replace a defunct connection.  If present, then
*     the value must be a positive integer to specify the maximum age, or zero
*     to indicate that no maximum age should be applied.  If it is not present,
*     then the value of the "maximum-connection-age-millis" field will be used
*     for connections created as replacements for defunct connections.
*   </LI>
*   <LI>
*     "maximum-wait-time-millis" -- Specifies the maximum length of time (in
*     milliseconds) that the pool should wait for a connection to be released
*     if one is needed but none are immediately available.  If present, then
*     this value must be a positive integer to specify the length of time to
*     wait, or zero to indicate that it should not wait at all.  If it is not
*     provided, then a default value of zero will be used.
 *   </LI>
*   <LI>
*     "retry-failed-operations-due-to-invalid-connections" -- Indicates whether
*     the pool should automatically attempt to retry operations attempted
*     directly against the pool (but not for connections checked out of the
```

```
*     pool) if the initial attempt fails in a manner that may indicate that the
*     connection is no longer valid.  If this field is present, then its value
*     may be either a boolean to indicate whether to enable retry for all types
*     of operations or no operations, or it may be an array of strings
*     indicating the operation types ("add", "bind", "compare", "delete",
*     "extended", "modify", "modify-dn", or "search") that should be retried
*     in the event of a failure.  If this field is not present, then no
*     automatic retry will be attempted.
*   </LI>
* </UL>
* <BR>
* The "connection-pool-options" field is optional, and if it is omitted from
* the specification then the default values will be used for
 all options.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/util/json/LDAPConnectionDetailsJSONSpecification.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides an implementation of a matching rule that can be used in
* conjunction with JSON objects.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable
 or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/JSONObjectExactMatchingRule.java

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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This enum contains the set of error log categories defined in the Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be
 guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ErrorLogCategory.java
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```
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```
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides an implementation of an extended request that can be used
* to retrieve a list of all available versions of the configuration within a
* server.  This may include not only the currently-active configuration, but
* also former configurations that have been archived, and the baseline
* configuration for the current server version.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.26.  It does not
* have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process for using the list
```

```
* configurations and get configuration extended requests to obtain the oldest
* archived configuration from the server:
* <PRE>
* // Get a list of the available configurations from the server.
* ListConfigurationsExtendedResult listConfigsResult =
*      (ListConfigurationsExtendedResult)
*      connection.processExtendedOperation(
*           new ListConfigurationsExtendedRequest());
* String archivedConfigFileName
 =
*      listConfigsResult.getArchivedFileNames().get(0);
*
* // Retrieve the first archived configuration from the list configurations
* // result.
* GetConfigurationExtendedResult getConfigResult =
*      (GetConfigurationExtendedResult)
*      connection.processExtendedOperation(GetConfigurationExtendedRequest.
*           createGetArchivedConfigurationRequest(archivedConfigFileName));
*
* InputStream fileDataStream = getConfigResult.getFileDataInputStream();
* // Read data from the file.
* fileDataStream.close();
* </PRE>
*
* @see  GetConfigurationExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListConfigurationsExtendedRequest.java
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```
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a request control which may be used to request that the
* associated request be routed to a specific server.  It is primarily intended
* for use when the request will pass through a Directory Proxy Server to
* indicate that which backend server should be used to process the request.
* The server ID for the server to use may be obtained using the
* {@link GetServerIDRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
 package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the request is processed successfully, then the result should include a
* {@link GetServerIDResponseControl} with the server ID of the server that was
* used to process the request.  It may or may not be the same as the server ID
* included in the request control, depending on whether an alternate server was
* determined to be better suited to handle the request.
* <BR><BR>
* The criticality for this control may be either {@code true} or {@code false}.
* It must have a value with the following encoding:
* <PRE>
```

```
*   RouteToServerRequest ::= SEQUENCE
 {
*       serverID                    [0] OCTET STRING,
*       allowAlternateServer        [1] BOOLEAN,
*       preferLocalServer           [2] BOOLEAN DEFAULT TRUE,
*       preferNonDegradedServer     [3] BOOLEAN DEFAULT TRUE,
*       ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process of performing a search to
* retrieve an entry using the get server ID request control and then sending a
* modify request to that same server using the route to server request control.
* <PRE>
* // Perform a search to find an entry, and use the get server ID request
* // control to figure out which server actually processed the request.
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.BASE, Filter.createPresenceFilter("objectClass"),
*      "description");
* searchRequest.addControl(new GetServerIDRequestControl());
*
* SearchResultEntry entry = connection.searchForEntry(searchRequest);
* GetServerIDResponseControl
 serverIDControl =
*      GetServerIDResponseControl.get(entry);
* String serverID = serverIDControl.getServerID();
*
* // Send a modify request to update the target entry, and include the route
* // to server request control to request that the change be processed on the
* // same server that processed the request.
* ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",
*      new Modification(ModificationType.REPLACE, "description",
*           "new description value"));
* modifyRequest.addControl(new RouteToServerRequestControl(false, serverID,
*      true, true, true));
* LDAPResult modifyResult = connection.modify(modifyRequest);
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/RouteToServerRequestControl.java

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*/
/**
* This class provides an implementation of the end batched transaction extended
* result.  It is able to decode a generic extended result to extract the
* appropriate response information.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
```

```
* The end batched transaction result may include two elements:
* <UL>
*   <LI>{@code failedOpMessageID} -- The message ID associated with the LDAP
*       request that caused the transaction to fail.  It will be "{@code -1}"
*       if the transaction was committed successfully.</LI>
*   <LI>{@code opResponseControls} -- A map containing the response controls
*       associated with each of the operations processed as part of the
*       transaction, mapped from the message ID of the associated request to
*       the array of response controls for that operation.  If there are no
*       response controls for a given request, then it will not be included in
*       the map.</LI>
* </UL>
* Note that both of these elements reference the LDAP message ID for the
* associated
 request.  Normally, this is not something that developers using
* the UnboundID LDAP SDK for Java need to access since it is handled behind the
* scenes, but the LDAP message ID for an operation is available through the
* {@link com.unboundid.ldap.sdk.LDAPResult#getMessageID} method in the response
* for that operation.  When processing operations that are part of a batched,
* transaction it may be desirable to keep references to the associated requests
* mapped by message ID so that they can be available if necessary for the
* {@code failedOpMessageID} and/or {@code opResponseControls} elements.
* <BR><BR>
* See the documentation for the {@link StartBatchedTransactionExtendedRequest}
* for an example of performing a batched transaction.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndBatchedTransactionExtendedResult.java
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*/
/**
* This class provides a mechanism for reading messages from a Directory Server
* access log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/AccessLogReader.java
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*/
/**
* This class provides an exception that may be thrown when attempting to obtain
* the value of an updated attribute as it appeared before or after a change
* was processed, but the number of values for that attribute exceeded the
* maximum number to include in a changelog entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
```

jar/com/unboundid/ldap/sdk/unboundidds/ChangeLogEntryAttributeExceededMaxValuesException.java
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*/
/**
  * Processes a simple bind request with the provided DN and password using a
  * read connection from this connection pool.  Note that this will impact the
  * state of the connection in the pool, and therefore this method should only
  * be used if this connection pool is used exclusively for processing bind
  * operations, or if the retain identity request control (a proprietary
  * control for use with the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
  * 8661 Directory Server) is included in the
```

```
 bind request to ensure that the
  * authentication state is not impacted.
  *
  * @param  bindDN    The bind DN for the bind operation.
  * @param  password  The password for the simple bind operation.
  *
  * @return  The result of processing the bind operation.
  *
  * @throws  LDAPException  If the server rejects the bind request, or if a
  *                         problem occurs while sending the request or reading
  *                         the response.
  */
/**
  * Processes the provided bind request using a read connection from this
  * connection pool.  Note that this will impact the state of the connection in
  * the pool, and therefore this method should only be used if this connection
  * pool is used exclusively for processing bind operations, or if the retain
  * identity request control (a proprietary control for use with the Ping
  * Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server) is
  * included in the bind request to ensure that
 the authentication state is not
  * impacted.
  *
  * @param  bindRequest  The bind request to be processed.  It must not be
  *                      {@code null}.
  *
  * @return  The result of processing the bind operation.
  *
  * @throws  LDAPException  If the server rejects the bind request, or if a
  *                         problem occurs while sending the request or reading
  *                         the response.
  */
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPReadWriteConnectionPool.java
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*/
/**
* This class defines a Directory Server task that can be used to export the
* contents of a backend to LDIF.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or
 mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The backend ID for the backend from which the data is to be exported.
*       It must be provided when scheduling a task of this type.</LI>
*   <LI>The path (on the server system) and name of the LDIF file to be
*       written.  It must be provided when scheduling a task of this type.</LI>
*   <LI>A flag that indicates whether to append to any existing file or to
*       overwrite it.</LI>
```

```
*   <LI>An optional list of base DNs for branches that should be included in
*       the export.</LI>
*   <LI>An optional list of base DNs for branches that should be excluded from
*       the export.</LI>
*   <LI>An optional list of filters that may be used to determine whether an
*       entry should be included in the export.</LI>
*   <LI>An optional list of filters
 that may be used to determine whether an
*       entry should be excluded from the export.</LI>
*   <LI>An optional list of attributes that should be included in entries that
*       are exported.</LI>
*   <LI>An optional list of attributes that should be excluded form entries
*       that are exported.</LI>
*   <LI>An integer value that specifies the column at which long lines should
*       be wrapped.  A value less than or equal to zero indicates that no
*       wrapping should be performed.</LI>
*   <LI>A flag that indicates whether to compress the LDIF data as it is
*       written.</LI>
*   <LI>A flag that indicates whether to encrypt the LDIF data as it is
*       written.</LI>
*   <LI>A flag that indicates whether to generate a signature for the LDIF data
*       as it is written.</LI>
*   <LI>The path to a file containing a passphrase to use to generate the
*       encryption key.</LI>
*   <LI>The ID of the encryption settings definition to use to generate the
 *       encryption key.</LI>
*   <LI>The maximum rate in megabytes per second at which the LDIF file should
*       be written.</LI>
* </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ExportTask.java
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*/
/**
* This class defines an intermediate client request control, which can be used
* to provide a server with information about the client and any downstream
* clients that it may have.  It can be used to help trace operations from the
* client to the directory server, potentially through any intermediate hops
* (like proxy servers) that may also support the intermediate client controls.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control is not based on any public standard.  It was originally
* developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server.  The value of this control uses the following
* encoding:
* <BR><BR>
* <PRE>
* IntermediateClientRequest ::= SEQUENCE {
```

```
*      downstreamRequest        [0] IntermediateClientRequest OPTIONAL,
*      downstreamClientAddress  [1] OCTET STRING OPTIONAL,
*      downstreamClientSecure   [2] BOOLEAN DEFAULT FALSE,
*      clientIdentity           [3] authzId OPTIONAL,
*      clientName               [4] OCTET
 STRING OPTIONAL,
*      clientSessionID          [5] OCTET STRING OPTIONAL,
*      clientRequestID          [6] OCTET STRING OPTIONAL,
*      ... }
* </PRE>
* <H2>Example</H2>
* The following example demonstrates the use of the intermediate client
* controls to perform a search operation in the directory server.  The request
* will be from an application named "my client" with a session ID of
* "session123" and a request ID of "request456":
* <PRE>
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe"));
* searchRequest.addControl(new IntermediateClientRequestControl(null, null,
*      null, null, "my client", "session123", "request456"));
* SearchResult searchResult = connection.search(searchRequest);
*
* IntermediateClientResponseControl c =
*      IntermediateClientResponseControl.get(searchResult);
* if (c != null)
* {
*   // There was an intermediate client response control.
 *   IntermediateClientResponseValue responseValue = c.getResponseValue();
* }
* </PRE>
*/
```

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*/
/**
* This class defines a data structure that provides information about the
* result of assured replication processing, either on a replication server (if
* that is all that is needed to satisfy the desired level of assurance) or
* on a directory server (if required by the desired level of assurance).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
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*/
/**
* This class provides an implementation of an LDAP control that can be included
* in a bind request to request that the Directory Server return the
* authentication and authorization entries for the user that authenticated.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

```
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The value of this control may be absent, but if it is present then will be
* encoded as follows:
* <PRE>
*   GetAuthorizationEntryRequest ::= SEQUENCE {
*        includeAuthNEntry     [0] BOOLEAN DEFAULT TRUE,
*        includeAuthZEntry     [1] BOOLEAN DEFAULT TRUE,
*        attributes            [2] AttributeSelection OPTIONAL }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process for processing a bind
* operation using the get authorization entry request control to return all
* user attributes in both the authentication and authorization entries:
* <PRE>
* ReadOnlyEntry authNEntry = null;
* ReadOnlyEntry authZEntry = null;
*
* BindRequest bindRequest = new SimpleBindRequest(
*      "uid=john.doe,ou=People,dc=example,dc=com",
 "password",
*      new GetAuthorizationEntryRequestControl());
*
* BindResult bindResult = connection.bind(bindRequest);
* GetAuthorizationEntryResponseControl c =
*      GetAuthorizationEntryResponseControl.get(bindResult);
* if (c != null)
* {
*   authNEntry = c.getAuthNEntry();
*   authZEntry = c.getAuthZEntry();
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetAuthorizationEntryRequestControl.java
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionLogger.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFSearchSeparateSearchDetails.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/SchemaElementType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/SchemaValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFModify.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/ValidateLDAPSchema.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/DNSHostNameArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/IA5StringArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/controls/DraftLDUPSubentriesRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFDiff.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/controls/RFC3672SubentriesRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/OIDRegistry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/OIDRegistryItem.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/NotNull.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/OAUTHBEARERBindResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/PassphraseEncryptionCipherType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/PassphraseEncryptedOutputStreamProperties.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/TestLDAPSDKPerformance.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/JSONLDAPConnectionLogger.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionInfo.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/JSONLDAPConnectionLoggerProperties.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/OAUTHBEARERBindRequestProperties.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/NullTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/SearchEntryParer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFSearch.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/OAUTHBEARERBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Nullable.java
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*/
/**
* This class provides an extended request that may be used to create or update
* a notification subscription.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The request has an OID of 1.3.6.1.4.1.30221.2.6.38 and a value with the
* following encoding:
* <BR><BR>
* <PRE>
*   SetNotificationSubscriptionRequest ::= SEQUENCE {
*        notificationManagerID          OCTET STRING,
*        notificationDestinationID      OCTET STRING,
*        notificationSubscriptionID     OCTET STRING,
*        subscriptionDetails            SEQUENCE OF OCTET STRING }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/SetNotificationSubscriptionExtendedRequest.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of replication assurance processing for a modify DN operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNAssuranceCompletedAccessLogMessage.java
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*/
/**
* This class provides a data structure that provides information about the
* result codes associated with various types of extended operations.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ExtendedOperationResultCodeInfo.java
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*/
/**
* This class defines a Directory Server task that can be used to cause it to
* generate a server profile in a specified location on the server filesystem.
* The profile may be created in a directory structure or packaged in a zip
* file.

```
\ * <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>
*     The path on the server filesystem to the location in which the generated
*     server profile should be written.  If the profile is to be packaged into
*     a zip file, then this may either be the path to the zip file to create
*     (which must not yet exist, although its parent directory must exist) or
*     the path to the directory (which must already exist) in which the zip
*     file will be created with a server-generated name.  If the profile is
*     not to be packaged into a zip file, then this must be the path to the
*     directory in which the profile will be written, and either that
*     directory must exist
 and be empty or it must not exist but its parent
*     directory must exist.  In either case, the path provided may be an
*     absolute path, or it may be a relative path that is interpreted as
*     relative to the instance root.  If this property is not provided, then
*     the zip file or profile directory will be created in the instance root
*     with a server-generated name.
*   </LI>
*   <LI>
*     An optional set of additional paths to files or directories within the
*     instance root that should be included in the server profile.  These may
*     be specified as either absolute paths or relative paths that will be
*     interpreted as relative to the instance root, but the paths must refer
*     to files or directories that exist beneath the instance root.  If this is
*     omitted, then no additional include paths will be used.
*   </LI>
*   <LI>
*     A flag indicating whether the generated server profile should be packaged
*     into a zip file.  If this
 is omitted, then the server will determine
*     whether to package the profile into a zip file.
*   </LI>
*   <LI>
*     Optional properties indicating the number and/or age of previous profile
*     zip files to retain.  These options may only be used if the profile is
```

```
*     to be packaged into a zip file, and if the name of the zip file will be
*     generated by the server.
*   </LI>
* </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/GenerateServerProfileTask.java
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*/
/**
```

```
* This class defines a Directory Server task that can be used to generate
* and/or rebuild one or more indexes a Berkeley DB Java Edition backend.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The backend base DN for which to perform the index rebuild.  This
*       must be provided when scheduling a rebuild task.</LI>
*   <LI>The names of the indexes to be built.  At least one index name must be
*       provided when scheduling a rebuild task.</LI>
*   <LI>The maximum number of concurrent threads that should be used to perform
*       the processing.  A value of zero indicates that there is no limit.</LI>
* </UL>

*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/RebuildTask.java
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/**
* This class defines a monitor entry that provides general information about
* the state of an index in a Directory Server backend.  Note that the term
* "index" may refer to a number of different things, including attribute
* indexes (in which each individual index type will be considered a separate
* index, so if "cn" has equality and substring index types then that will be
* considered two separate indexes), VLV indexes, and system indexes (for
* databases that are maintained internally, like id2entry,
 dn2id, id2children,
* and id2subtree).
* <BR>
* <BLOCKQUOTE>
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* </BLOCKQUOTE>
* <BR>
* The set of index monitor entries published by the directory server can be
* obtained using the {@link MonitorManager#getIndexMonitorEntries} method.
* Specific methods are available for accessing the associated monitor data
* (e.g., {@link IndexMonitorEntry#getBackendID} to retrieve the backend ID),
* and there are also methods for accessing this information in a generic manner
* (e.g., {@link IndexMonitorEntry#getMonitorAttributes}
 to retrieve all of
* the monitor attributes).  See the {@link MonitorManager} class documentation
* for an example that demonstrates the use of the generic API for accessing
```

* monitor data.
*/

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*/
/**
* This enum provides information about all of the subcommands available for
* use with the manage-account tool.
*
* <BLOCKQUOTE>

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountSubCommandType.java
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/**
* This class provides the base class for all LDIF reader entry translators that
* will be used to determine where an entry should be written.
* <BR>
* <BLOCKQUOTE>
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*/
/**
* This class defines an API that should be implemented by classes which may
* represent a way to pare down the changelog entries that should be returned
* (e.g., so that they only include changes to a particular attribute or set of
* attributes) when using the {@link GetChangelogBatchExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ChangelogBatchChangeSelectionCriteria.java
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*/
/**
* This class provides a SASL DIGEST-MD5 bind request implementation as
* described in <A HREF="http://www.ietf.org/rfc/rfc2831.txt">RFC 2831</A>.  The
* DIGEST-MD5 mechanism can be used to authenticate over an insecure channel
* without exposing the credentials (although it requires that the server have
* access to the clear-text password).  It is similar to CRAM-MD5, but provides
* better security by combining random data from both the client and the server,
* and allows for greater security and functionality,
 including the ability to
* specify an alternate authorization identity and the ability to use data
* integrity or confidentiality protection.
* <BR><BR>
* Elements included in a DIGEST-MD5 bind request include:
* <UL>
*   <LI>Authentication ID -- A string which identifies the user that is
*       attempting to authenticate.  It should be an "authzId" value as
*       described in section 5.2.1.8 of
*       <A HREF="http://www.ietf.org/rfc/rfc4513.txt">RFC 4513</A>.  That is,
*       it should be either "dn:" followed by the distinguished name of the
*       target user, or "u:" followed by the username.  If the "u:" form is
*       used, then the mechanism used to resolve the provided username to an
*       entry may vary from server to server.</LI>
*   <LI>Authorization ID -- An optional string which specifies an alternate
*       authorization identity that should be used for subsequent operations
*       requested on the connection.  Like the authentication
```

```
 ID, the
*       authorization ID should use the "authzId" syntax.</LI>
*   <LI>Realm -- An optional string which specifies the realm into which the
*       user should authenticate.</LI>
*   <LI>Password -- The clear-text password for the target user.</LI>
* </UL>
* <H2>Example</H2>
* The following example demonstrates the process for performing a DIGEST-MD5
* bind against a directory server with a username of "john.doe" and a password
* of "password":
* <PRE>
* DIGESTMD5BindRequest bindRequest =
*      new DIGESTMD5BindRequest("u:john.doe", "password");
* BindResult bindResult;
* try
* {
*   bindResult = connection.bind(bindRequest);
*   // If we get here, then the bind was successful.
* }
* catch (LDAPException le)
* {
*   // The bind failed for some reason.
*   bindResult = new BindResult(le.toLDAPResult());
*   ResultCode resultCode = le.getResultCode();
*   String errorMessageFromServer = le.getDiagnosticMessage();
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DIGESTMD5BindRequest.java
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*/
/**
* This class defines an API that may be used to indicate how the tool should
* determine which log content to include in the support data archive when
* processing a {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*
   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Available log capture window implementations include:
* <UL>
*   <LI>
*     {@link ToolDefaultCollectSupportDataLogCaptureWindow} -- Indicates that
*     the tool should capture a default amount of log content to include in
*     the support data archive.
*   </LI>
*   <LI>
*     {@link DurationCollectSupportDataLogCaptureWindow} -- Indicates that the
*     support data archive should include log messages for a specified duration
*     leading up to the time that the
```

```
*     {@link CollectSupportDataExtendedRequest} was received by the server.
*   </LI>
*   <LI>
*     {@link TimeWindowCollectSupportDataLogCaptureWindow} -- Indicates that
*     the support data archive should include log messages that fall between
*     specified start and end times.
 *   </LI>
*   <LI>
*     {@link HeadAndTailSizeCollectSupportDataLogCaptureWindow} -- Indicates
*     that the support data archive should include a specified amount of data
*     from the beginning and end of each log file.
*   </LI>
* </UL>
*
* @see  CollectSupportDataExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataLogCaptureWindow.java
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*/
/**
* This class provides an implementation of a response control that can be
* included in a bind response with information about any password policy state
* notices, warnings, and/or errors for the user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.47, a criticality of
* {@code false}, and a value with the following encoding:
* <PRE>
*   GetPasswordPolicyStateIssuesResponse ::= SEQUENCE {
*       notices             [0] SEQUENCE OF SEQUENCE {
*           type       INTEGER,
*           name       OCTET STRING,
*           message    OCTET STRING OPTIONAL } OPTIONAL,
*       warnings            [1] SEQUENCE OF SEQUENCE {
*           type       INTEGER,
*           name       OCTET STRING,
*           message    OCTET STRING OPTIONAL } OPTIONAL,
*       errors              [2] SEQUENCE OF SEQUENCE {
*           type       INTEGER,
*           name       OCTET STRING,
*           message    OCTET STRING OPTIONAL }
 OPTIONAL,
*       authFailureReason    [3] SEQUENCE {
*           type       INTEGER,
*           name       OCTET STRING,
*           message    OCTET STRING OPTIONAL } OPTIONAL,
```

```
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetPasswordPolicyStateIssuesResponseControl.java
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*/
/**
* This class defines the API that should be implemented by classes which may
* represent a way to identify the start of a batch of changes to retrieve using
```

```
* the {@link GetChangelogBatchExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ChangelogBatchStartingPoint.java
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*/
/**
* This class defines an intermediate client response control, which can be used
* to provide a server with information about the client and any downstream
* clients that it may have.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality
 or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control is not based on any public standard.  It was originally
* developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server.  The value of this control uses the following
* encoding:
* <BR><BR>
* <PRE>
* IntermediateClientResponse ::= SEQUENCE {
*      upstreamResponse       [0] IntermediateClientResponse OPTIONAL,
*      upstreamServerAddress  [1] OCTET STRING OPTIONAL,
*      upstreamServerSecure   [2] BOOLEAN DEFAULT FALSE,
*      serverName             [3] OCTET STRING OPTIONAL,
*      serverSessionID        [4] OCTET STRING OPTIONAL,
*      serverResponseID       [5] OCTET STRING OPTIONAL,
*      ... }
* </PRE>
* See the documentation in the {@link IntermediateClientRequestControl} class
* for an example of using the
 intermediate client request and response
* controls.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/IntermediateClientResponseControl.java

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/**
* This class provides a data structure that encapsulates information about a
* result code included in the result code monitor entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```
 *   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
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*/
/**
* This class provides an implementation of an extended result that can be used
* to identify potential incompatibility problems between two backup
```

```
* compatibility descriptor values.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended result is 1.3.6.1.4.1.30221.2.6.33.  If the request
* was processed successfully, then the response will have a value with the
* following encoding:
* <PRE>
*   IdentifyBackupCompatibilityProblemsResult ::= SEQUENCE {
*        errorMessages       [0] SEQUENCE OF OCTET STRING OPTIONAL,
*        warningMessages     [1] SEQUENCE OF OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*
* @see  IdentifyBackupCompatibilityProblemsExtendedRequest
* @see  GetBackupCompatibilityDescriptorExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/IdentifyBackupCompatibilityProblemsExtendedResult.java
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*/
/**
* This class defines a monitor entry that provides basic information about the
* Berkeley DB Java Edition environment in use for a backend.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are
 not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information that is provided includes:
* <UL>
*   <LI>The backend ID for the associated backend.</LI>
*   <LI>The version string for the Berkeley DB Java Edition library.</LI>
*   <LI>The path to the directory containing the database environment
*       files.</LI>
*   <LI>The amount of space consumed by the database files.</LI>
*   <LI>The amount of memory currently consumed by the database cache.</LI>
*   <LI>The maximum amount of memory that may be consumed by the database
*       cache.</LI>
*   <LI>The percent of the total memory allowed for the database cache that is
*       currently in use.</LI>
*   <LI>Whether a checkpoint is currently in progress.</LI>
```

```
*   <LI>The total number of checkpoints that have been completed.</LI>
*   <LI>The time that the last completed checkpoint began.</LI>
*   <LI>The time
 that the last completed checkpoint ended.</LI>
*   <LI>The total duration of all checkpoints completed.</LI>
*   <LI>The average duration of all checkpoints completed.</LI>
*   <LI>The duration of the last checkpoint completed.</LI>
*   <LI>The length of time since the last checkpoint.</LI>
*   <LI>The number of log files that the cleaner needs to examine.</LI>
*   <LI>The number of nodes evicted from the database cache.</LI>
*   <LI>The number of random-access disk reads performed.</LI>
*   <LI>The number of random-access disk writes performed.</LI>
*   <LI>The number of sequential disk reads performed.</LI>
*   <LI>The number of sequential disk writes performed.</LI>
*   <LI>The number of active transactions in the database environment.</LI>
*   <LI>The number of read locks held in the database environment.</LI>
*   <LI>The number of write locks held in the database environment.</LI>
*   <LI>The number of transactions waiting on locks.</LI>
*   <LI>A set of generic
 statistics about the database environment.</LI>
*   <LI>A set of generic statistics about the lock subsystem for the database
*       environment.</LI>
*   <LI>A set of generic statistics about the transaction subsystem for the
*       database environment.</LI>
* </UL>
* The JE environment monitor entries provided by the server can be
* retrieved using the {@link MonitorManager#getJEEnvironmentMonitorEntries}
* method.  These entries provide specific methods for accessing information
* about the JE environment (e.g., the
* {@link JEEnvironmentMonitorEntry#getJEVersion} method can be used to retrieve
* the Berkeley DB JE version).  Alternately, this information may be accessed
* using the generic API.  See the {@link MonitorManager} class documentation
* for an example that demonstrates the use of the generic API for accessing
* monitor data.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This class provides a data structure that describes a requirement that
* passwords must satisfy in order to be accepted by the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* A password quality requirement will always include a description, which
* should be a string that provides a user-friendly description of the
* constraints that a proposed password must satisfy in order to meet this
* requirement and be accepted by the server.  It may optionally include
* additional information that could allow an application to attempt some kind
```

* of pre-validation in order to determine whether a proposed password might
* fall outside the constraints associated with this requirement and would
* therefore be rejected by the server. This could allow a client to provide
* better performance (by not having to submit a password to the server and wait
* for the response in order to detect certain kinds of problems) and a better
* user experience (for example, by interactively indicating whether the value
*
 is acceptable as the user is entering it).
*

* If a password quality requirement object does provide client-side validation
* data, then it will include at least a validation type (which indicates the
* nature of the validation that will be performed), and an optional set of
* properties that provide additional information about the specific nature of
* the validation. For example, if the server is configured with a length-based
* password validator that requires passwords to be between eight and 20
* characters, then the requirement may have a validation type of "length" and
* two validation properties: "minimum-length" with a value of "8" and
* "maximum-length" with a value of "20". An application that supports this
* type of client-side validation could prevent a user from supplying a password
* that is too short or too long without the need to communicate with the
* server.
*

* Note that not all types of password requirements will support client-side
 * validation. For example, the server may be configured to use a dictionary
* with some of the most commonly-used passwords in an attempt to prevent
* users from selecting passwords that may be easily guessed, or the server
* may be configured with a password history to prevent users from selecting a
* password that they had already used. In these kinds of cases, the
* application will not have access to the information necessary to make the
* determination using client-side logic. The server is the ultimate authority
* as to whether a proposed password will be accepted, and even applications
* should be prepared to handle the case in which a password is rejected by the
* server even if client-side validation does not indicate that there are any
* problems with the password. There may also be cases in which the reason that
* an attempt to set a password fails for a reason that is not related to the
* quality of the provided password.
*

* However, even
 in cases where an application may not be able to perform any
* client-side validation, the server may still offer a client-side validation
* type and validation properties. This is not intended to help the client
* determine whether a proposed password is acceptable, but could allow the
* client to convey information about the requirement to the user in a more
* flexible manner than simply providing the requirement description (e.g., it
* could allow the client to provide information about the requirement to the
* user in a different language than the server-provided description, or it
* could allow information about one requirement to be split into multiple
* elements, or multiple requirements combined into a single element.

```
* <BR><BR>
* If it appears in an LDAP protocol element (e.g., a get password quality
* requirements extended response, or a password validation details response
* control), it should have the following ASN.1 encoding:
* <PRE>
*   PasswordQualityRequirement
 ::= SEQUENCE {
*       description                 OCTET STRING,
*       clientSideValidationInfo    [0] SEQUENCE {
*           validationType     OCTET STRING,
*           properties         [0] SET OF SEQUENCE {
*               name      OCTET STRING,
*               value     OCTET STRING } OPTIONAL } OPTIONAL }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordQualityRequirement.java
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*/
/**
* This class provides an implementation of an extended result that may be used
* to provide information about the result of processing for a deliver password
* reset token extended request.  If the token was delivered successfully, then
* this result will include information about the mechanism through which the
* token was delivered.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported
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*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the request was processed successfully, then the extended result will have
* an OID of 1.3.6.1.4.1.30221.2.6.46 and a value with the following encoding:
* <BR><BR>
* <PRE>
*   DeliverPasswordResetTokenResult ::= SEQUENCE {
*       deliveryMechanism     OCTET STRING,
*       recipientID           [0] OCTET STRING OPTIONAL,
*       message               [1] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*
* @see  DeliverPasswordResetTokenExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverPasswordResetTokenExtendedResult.java
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*/
/**
* This class provides an extended request that may be used to delete a
* notification destination.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough
 to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
* <BR>
* The request has an OID of 1.3.6.1.4.1.30221.2.6.37 and a value with the
* following encoding:
* <BR><BR>
* <PRE>
*   DeleteNotificationDestinationRequest ::= SEQUENCE {
*        notificationManagerID         OCTET STRING,
*        notificationDestinationID     OCTET STRING }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeleteNotificationDestinationExtendedRequest.java
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```

```
*
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class defines a number of constants associated with LDAP result codes.
* The {@code ResultCode} constant values defined in this class are immutable,
* and at most one result code object will ever be created for a given int
* value, so it is acceptable to compare result codes with either the
* {@link ResultCode#equals} method or the "{@code ==}" operator.
*<BR><BR>
* The result codes that are currently defined include:
* <BR>
* <TABLE BORDER="1" CELLPADDING="3" CELLSPACING="0" WIDTH="50%"
*
    SUMMARY="Result Code Names and Numeric Values">
*   <TR>
*     <TH ALIGN="LEFT">Name</TH>
*     <TH ALIGN="RIGHT">Integer Value</TH>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">SUCCESS</TD>
*     <TD ALIGN="RIGHT">0</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">OPERATIONS_ERROR</TD>
*     <TD ALIGN="RIGHT">1</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">PROTOCOL_ERROR</TD>
*     <TD ALIGN="RIGHT">2</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">TIME_LIMIT_EXCEEDED</TD>
*     <TD ALIGN="RIGHT">3</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">SIZE_LIMIT_EXCEEDED</TD>
*     <TD ALIGN="RIGHT">4</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">COMPARE_FALSE</TD>
*     <TD ALIGN="RIGHT">5</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">COMPARE_TRUE</TD>
*     <TD ALIGN="RIGHT">6</TD>
*   </TR>
```

```
*   <TR>
*     <TD ALIGN="LEFT">AUTH_METHOD_NOT_SUPPORTED</TD>
*     <TD ALIGN="RIGHT">7</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">STRONG_AUTH_REQUIRED</TD>
 *     <TD ALIGN="RIGHT">8</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">REFERRAL</TD>
*     <TD ALIGN="RIGHT">10</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">ADMIN_LIMIT_EXCEEDED</TD>
*     <TD ALIGN="RIGHT">11</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">UNAVAILABLE_CRITICAL_EXTENSION</TD>
*     <TD ALIGN="RIGHT">12</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">CONFIDENTIALITY_REQUIRED</TD>
*     <TD ALIGN="RIGHT">13</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">SASL_BIND_IN_PROGRESS</TD>
*     <TD ALIGN="RIGHT">14</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">NO_SUCH_ATTRIBUTE</TD>
*     <TD ALIGN="RIGHT">16</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">UNDEFINED_ATTRIBUTE_TYPE</TD>
*     <TD ALIGN="RIGHT">17</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">INAPPROPRIATE_MATCHING</TD>
*     <TD ALIGN="RIGHT">18</TD>
*   </TR>
*   <TR>
*     <TD ALIGN="LEFT">CONSTRAINT_VIOLATION</TD>
*     <TD ALIGN="RIGHT">19</TD>
*   </TR>
*   <TR>
*
  <TD ALIGN="LEFT">ATTRIBUTE_OR_VALUE_EXISTS</TD>
*     <TD ALIGN="RIGHT">20</TD>
```

```
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">INVALID_ATTRIBUTE_SYNTAX</TD>
*    <TD ALIGN="RIGHT">21</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NO_SUCH_OBJECT</TD>
*    <TD ALIGN="RIGHT">32</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">ALIAS_PROBLEM</TD>
*    <TD ALIGN="RIGHT">33</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">INVALID_DN_SYNTAX</TD>
*    <TD ALIGN="RIGHT">34</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">ALIAS_DEREFERENCING_PROBLEM</TD>
*    <TD ALIGN="RIGHT">36</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">INAPPROPRIATE_AUTHENTICATION</TD>
*    <TD ALIGN="RIGHT">48</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">INVALID_CREDENTIALS</TD>
*    <TD ALIGN="RIGHT">49</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">INSUFFICIENT_ACCESS_RIGHTS</TD>
*    <TD ALIGN="RIGHT">50</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">BUSY</TD>
*    <TD ALIGN="RIGHT">51</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">UNAVAILABLE</TD>
*    <TD ALIGN="RIGHT">52</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">UNWILLING_TO_PERFORM</TD>
*    <TD ALIGN="RIGHT">53</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">LOOP_DETECT</TD>
*    <TD ALIGN="RIGHT">54</TD>
```

```
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">SORT_CONTROL_MISSING</TD>
*    <TD ALIGN="RIGHT">60</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">OFFSET_RANGE_ERROR</TD>
*    <TD ALIGN="RIGHT">61</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NAMING_VIOLATION</TD>
*    <TD ALIGN="RIGHT">64</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">OBJECT_CLASS_VIOLATION</TD>
*    <TD ALIGN="RIGHT">65</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NOT_ALLOWED_ON_NONLEAF</TD>
*    <TD ALIGN="RIGHT">66</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NOT_ALLOWED_ON_NONLEAF</TD>
*    <TD ALIGN="RIGHT">66</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NOT_ALLOWED_ON_RDN</TD>
*
   <TD ALIGN="RIGHT">67</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">ENTRY_ALREADY_EXISTS</TD>
*    <TD ALIGN="RIGHT">68</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">OBJECT_CLASS_MODS_PROHIBITED</TD>
*    <TD ALIGN="RIGHT">69</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">AFFECTS_MULTIPLE_DSAS</TD>
*    <TD ALIGN="RIGHT">71</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">VIRTUAL_LIST_VIEW_ERROR</TD>
*    <TD ALIGN="RIGHT">76</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">OTHER</TD>
```

```
*    <TD ALIGN="RIGHT">80</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">SERVER_DOWN</TD>
*    <TD ALIGN="RIGHT">81</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">LOCAL_ERROR</TD>
*    <TD ALIGN="RIGHT">82</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">ENCODING_ERROR</TD>
*    <TD ALIGN="RIGHT">83</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">DECODING_ERROR</TD>
*    <TD ALIGN="RIGHT">84</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">TIMEOUT</TD>
*    <TD
 ALIGN="RIGHT">85</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">AUTH_UNKNOWN</TD>
*    <TD ALIGN="RIGHT">86</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">FILTER_ERROR</TD>
*     <TD ALIGN="RIGHT">87</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">USER_CANCELED</TD>
*    <TD ALIGN="RIGHT">88</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">PARAM_ERROR</TD>
*    <TD ALIGN="RIGHT">89</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NO_MEMORY</TD>
*    <TD ALIGN="RIGHT">90</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">CONNECT_ERROR</TD>
*    <TD ALIGN="RIGHT">91</TD>
*  </TR>
*  <TR>
```

```
*    <TD ALIGN="LEFT">NOT_SUPPORTED</TD>
*    <TD ALIGN="RIGHT">92</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">CONTROL_NOT_FOUND</TD>
*    <TD ALIGN="RIGHT">93</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NO_RESULTS_RETURNED</TD>
*    <TD ALIGN="RIGHT">94</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">MORE_RESULTS_TO_RETURN</TD>
*    <TD ALIGN="RIGHT">95</TD>
 *  </TR>
*  <TR>
*    <TD ALIGN="LEFT">CLIENT_LOOP</TD>
*    <TD ALIGN="RIGHT">96</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">REFERRAL_LIMIT_EXCEEDED</TD>
*    <TD ALIGN="RIGHT">97</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">CANCELED</TD>
*    <TD ALIGN="RIGHT">118</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">NO_SUCH_OPERATION</TD>
*    <TD ALIGN="RIGHT">119</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">TOO_LATE</TD>
*    <TD ALIGN="RIGHT">120</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">CANNOT_CANCEL</TD>
*    <TD ALIGN="RIGHT">121</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">ASSERTION_FAILED</TD>
*    <TD ALIGN="RIGHT">122</TD>
*  </TR>
*  <TR>
*    <TD ALIGN="LEFT">AUTHORIZATION_DENIED</TD>
*    <TD ALIGN="RIGHT">123</TD>
*  </TR>
*  <TR>
```

```
*    <TD ALIGN="LEFT">E_SYNC_REFRESH_REQUIRED</TD>
*    <TD ALIGN="RIGHT">4096</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">NO_OPERATION</TD>
*    <TD ALIGN="RIGHT">16654</TD>
 *   </TR>
*   <TR>
*    <TD ALIGN="LEFT">INTERACTIVE_TRANSACTION_ABORTED</TD>
*    <TD ALIGN="RIGHT">30221001</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">DATABASE_LOCK_CONFLICT</TD>
*    <TD ALIGN="RIGHT">30221002</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">MIRRORED_SUBTREE_DIGEST_MISMATCH</TD>
*    <TD ALIGN="RIGHT">30221003</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">TOKEN_DELIVERY_MECHANISM_UNAVAILABLE</TD>
*    <TD ALIGN="RIGHT">30221004</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">TOKEN_DELIVERY_ATTEMPT_FAILED</TD>
*    <TD ALIGN="RIGHT">30221005</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">TOKEN_DELIVERY_INVALID_RECIPIENT_ID</TD>
*    <TD ALIGN="RIGHT">30221006</TD>
*   </TR>
*   <TR>
*    <TD ALIGN="LEFT">TOKEN_DELIVERY_INVALID_ACCOUNT_STATE</TD>
*    <TD ALIGN="RIGHT">30221007</TD>
*   </TR>
* </TABLE>
*/
/**
  * The integer value (13) for the "CONFIDENTIALITY_REQUIRED" result code.
  */
```

Found in path(s):

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ResultCode.java

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*/
/**
* This class provides an implementation of an LDAP control which can be
* included in a search request to indicate that search result entries should be
* returned along with related entries based on a given set of criteria, much
* like an SQL join in a relational database.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent
 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
```

```
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.30221.2.5.9, and the
* criticality is generally true.  It must have a value, and the format of that
* value is described in the class-level documentation for the
* {@link JoinRequestValue} class.
* <BR>
* <H2>Example</H2>
* Consider the case in which user entries include an account number, but
* additional information about those accounts are available in separate
* entries.    If you wish to retrieve both the user and account entries for a
* user given only a user ID, then you may accomplish that using the join
* request control as follows:
* <PRE>
* SearchRequest searchRequest = new SearchRequest(
*      "ou=People,dc=example,dc=com",
 SearchScope.SUB,
*      Filter.createEqualityFilter("uid", userID));
* searchRequest.addControl(new JoinRequestControl(new JoinRequestValue(
*      JoinRule.createEqualityJoin("accountNumber", "accountNumber", false),
*      JoinBaseDN.createUseCustomBaseDN("ou=Accounts,dc=example,dc=com"),
*      SearchScope.SUB, DereferencePolicy.NEVER, null,
*      Filter.createEqualityFilter("objectClass", "accountEntry"),
*      new String[0], false, null)));
* SearchResult searchResult = connection.search(searchRequest);
*
* for (SearchResultEntry userEntry : searchResult.getSearchEntries())
* {
*   JoinResultControl c = JoinResultControl.get(userEntry);
*   for (JoinedEntry accountEntry : c.getJoinResults())
*   {
*     // User userEntry was joined with account accountEntry
*   }
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinRequestControl.java
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*/
/**
* This class defines a task state, which provides information about the current
* state of processing for a scheduled task.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

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/**
* This package contains a number of helper classes for invoking and interacting
* with scheduled tasks in Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 server products.  Tasks may be used to perform various kinds of
* administrative functions, like backing up and restoring backends, importing
* and exporting data, rebuilding indexes, and shutting down or restarting the
* server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The classes within this package, and elsewhere within the
```

*   {@code com.unboundid.ldap.sdk.unboundidds}
 package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The {@code TaskManager} class provides a number of utility methods for
* interacting with tasks in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
* 8661 Directory Server. The {@code Task} class and its subclasses provide a
* framework for accessing the generic and task-specific information associated
* with tasks.
*/

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*/
/**
* This class defines a monitor entry that provides general information about a
* Directory Server connection handler.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered
 stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Information that may be available in a connection handler monitor entry
* includes:
* <UL>
*   <LI>The total number of connections that are established.</LI>
*   <LI>The protocol that the connection handler uses to communicate with
*       clients.</LI>
*   <LI>A list of the listeners (addresses and ports on which the connection
*       handler is listening for connections.</LI>
*   <LI>Information about each of the connections established to the connection
*       handler.  The information available for these connections may vary by
*       connection handler type.</LI>
* </UL>
* The connection handler monitor entries provided by the server can be
* retrieved using the {@link MonitorManager#getConnectionHandlerMonitorEntries}
* method.  These entries provide specific methods for accessing information
* about the connection handler (e.g.,
 the
* {@link ConnectionHandlerMonitorEntry#getNumConnections} method can be used
* to retrieve the total number of connections established).  Alternately, this
* information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

Found in path(s):

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jar/com/unboundid/ldap/sdk/unboundidds/monitors/ConnectionHandlerMonitorEntry.java
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*/
/**
* This class provides a command-line tool that can be used to read change
* records for add, delete, modify and modify DN operations from an LDIF file,
* and then apply them in parallel using multiple threads for higher throughput.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*

* Changes in the LDIF file to be processed should be ordered such that if there
* are any dependencies between changes, prerequisite changes come before the
* changes that depend on them (for example, if one add change record creates a
* parent entry and another creates a child entry, the add change record that
* creates the parent entry must come before the one that creates the child
* entry). When this tool is preparing to process a change, it will determine
* whether the new change depends on any other changes that are currently in
* progress, and if so, will delay processing that change until its dependencies
* have been satisfied. If a change does not depend on any other changes that
* are currently being processed, then
 it can be processed in parallel with
* those changes.
*

* The tool will keep track of any changes that fail in a way that indicates
* they succeed if re-tried later (for example, an attempt to add an entry that
* fails because its parent does not exist, but its parent may be created later
* in the set of LDIF changes), and can optionally re-try those changes after
* processing is complete. Any changes that are not retried, as well as changes
* that still fail after the retry attempts, will be written to a rejects file
* with information about the reason for the failure so that an administrator
* can take any necessary further action upon them.
*/

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*/
/**
* An enum that defines the possible values that may be used for the
* {@code expectedType} element of a {@link ContainsFieldJSONObjectFilter}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides an implementation of a request control that may be
* included in a search request to indicate that the server should process the
* search even if it cannot use its defined indexes to identify matching entries
* efficiently.  This control will only have any effect if the requester has the
* unindexed-search-with-control privilege.  If the user does not have that
* privilege, then an unindexed search request will either be accepted or
* rejected based on whether that user has the unindexed-search
 privilege (and
* it doesn't make any sense for the same user to have both the unindexed-search
* and unindexed-search-with-control privileges).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

```
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of "1.3.6.1.4.1.30221.2.5.55", may have a
* criticality of either true or false, and does not take a value.
*
* @see  RejectUnindexedSearchRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/PermitUnindexedSearchRequestControl.java

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*/
/**
* This enum defines the set of possible error behavior values that may be used
* in the multi-update extended request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see MultiUpdateExtendedRequest
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/GSSAPIChannelBindingType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/X509PEMFileReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/PEMFileKeyManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/PKCS8PEMFileReader.java
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 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ThreadLocalSecureRandom.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/BouncyCastleFIPSHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/PEMFileTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/Base64EncodingStrategy.java
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/**
* This class provides a request control which may be included in a delete or
* modify DN request to indicate that the server should skip any referential
* integrity processing that would have otherwise been done for that operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The request control has an OID of "1.3.6.1.4.1.30221.2.5.30" and does not
* have a value.  The criticality for this control may be either {@code TRUE}
* or {@code FALSE}, which may impact whether a server will process the
* associated modify DN or delete operation if the server does not support the
* use of this control.  If a server receives a critical control that it does
* not support for the associated operation, then it will return a failure
* result without attempting to process that operation.  If a server receives
* a non-critical control that it does not support for the associated operation,
* then it will process the operation as if that control had not been provided.
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This enum defines the set of routing types that may be used in a route to
* backend set request control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
```

```
*   considered stable or mature
 enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/RouteToBackendSetRoutingType.java
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*/
/**
```

```
* This class defines a Directory Server task that can be used to import LDIF
* content into a backend.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature
 enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The paths (on the server system) to the LDIF files containing the data
*       to be imported.  At least one LDIF file path must be provided.</LI>
*   <LI>The backend ID for the backend into which the data should be
*       imported.  It may be omitted only if at least one include branch is
*       provided.</LI>
*   <LI>A flag that indicates whether to append to the existing data in the
*       backend rather than destroying any existing data before beginning the
*       import.</LI>
*   <LI>A flag that indicates whether to replace entries that already exist
*       when operating in append mode.</LI>
*   <LI>An optional path (on the server system) to a file to which the server
*       should write copies of any entries that are rejected, along with a
*       message
 explaining why they were rejected.</LI>
*   <LI>A flag that indicates whether to overwrite the reject file rather than
*       append to it if it already exists.</LI>
*   <LI>A flag that indicates whether to clear the entire contents of the
*       backend even if it has multiple base DNs but only a subset of them
*       were provided in the set of include branches.</LI>
*   <LI>An optional list of base DNs for branches to include in the
*       import.</LI>
*   <LI>An optional list of base DNs for branches to exclude from the
*       import.</LI>
*   <LI>An optional list of search filters that may be used to determine
*       whether an entry should be included in the import.</LI>
*   <LI>An optional list of search filters that may be used to determine
*       whether an entry should be excluded from the import.</LI>
*   <LI>An optional list of attributes that should be included in the entries
*       that are imported.</LI>
*   <LI>An optional list of attributes
 that should be excluded from the entries
*       that are imported.</LI>
```

```
*   <LI>A flag that indicates whether the LDIF data to import is
*       compressed.</LI>
*   <LI>A flag that indicates whether the LDIF data to import is
*       encrypted.</LI>
*   <LI>A flag that indicates whether to skip schema validation for the data
*       that is imported.</LI>
*   <LI>The path to a file containing a passphrase to use to generate the
*       encryption key.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ImportTask.java
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*/
/**
* This class provides an implementation of an extended result that can be used
* to provide information about the notification subscriptions defined in the
* target server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this result is 1.3.6.1.4.1.30221.2.6.41, and the value (if
* present) should have the following encoding:
* <BR><BR>
* <PRE>
*   ListNotificationSubscriptionsResponse ::= SEQUENCE OF SEQUENCE {
*        notificationDestinationID     OCTET STRING,
*        destinationDetails            SEQUENCE OF OCTET STRING,
*        subscriptions                 SEQUENCE OF SEQUENCE {
*             subscriptionID           OCTET STRING,
*             subscriptionDetails      SEQUENCE OF OCTET STRING } }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListNotificationSubscriptionsExtendedResult.java
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*/
/**
* This enum contains the set of error log severities defined in the Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ErrorLogSeverity.java
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*/
/**
* This class provides an implementation of an extended result that may be used
* to provide information about which one-time password delivery mechanisms are
* supported for a user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality
 or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
* <BR>
* If the request was processed successfully, then the extended result will have
* an OID of 1.3.6.1.4.1.30221.2.6.48 and a value with the following encoding:
* <BR><BR>
* <PRE>
*   GetSupportedOTPDeliveryMechanismsResult ::= SEQUENCE OF SEQUENCE {
*        deliveryMechanism     [0] OCTET STRING,
*        isSupported           [1] BOOLEAN OPTIONAL,
*        recipientID           [2] OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*
* @see  GetSupportedOTPDeliveryMechanismsExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSupportedOTPDeliveryMechanismsExtendedResult.java
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*/
/**
* This class provides a utility that can delete all entries below a specified
* base DN (including the base entry itself by default, although it can be
* preserved if desired) in an LDAP directory server.  It accomplishes this
* through a combination of search and delete operations.  Ideally, it will
* first perform a search to find all entries below the target base DN, but in
* some cases, it may be necessary to intertwine search and delete operations
* if it is not possible to retrieve all entries in
 the target subtree in
* advance.
* <BR><BR>
* The subtree deleter can optionally take advantage of a number of server
* features to aid in processing, but does not require them.  Some of these
* features include:
* <UL>
*   <LI>
*     Set Subtree Accessibility Extended Operation -- A proprietary extended
*     operation supported by the Ping Identity, UnboundID, and
*     Nokia/Alcatel-Lucent 8661 Directory Server products.  This operation can
*     restrict access to a specified subtree to all but a specified user.  If
*     this is to be used, then the "Who Am I?" extended operation will first be
*     used to identify the user that is authenticated on the provided
*     connection, and then the set subtree accessibility extended operation
*     will be used to make the target subtree hidden and read-only for all
*     users except the user identified by the "Who Am I?" operation.  As far as
*     all other clients are concerned, this will make the target subtree
*
    immediately disappear.  The subtree deleter will then be able to search
*     for the entries to delete, and then delete those entries, without
*     exposing other clients to its in-progress state.
*     <BR><BR>
*     The set subtree accessibility extended operation will not automatically
*     be used.  If the
*     {@link #setUseSetSubtreeAccessibilityOperationIfAvailable} method is
*     called with a value of {@code true}, then this extended operation will be
*     used if the server root DSE advertises support for both this operation
*     and the LDAP "Who Am I?" extended operation.
*     <BR><BR>
*   </LI>
*   <LI>
```

```
*     Simple Paged Results Request Control -- A standard request control that
*     is supported by several types of directory servers.  This control allows
*     a search to be broken up into pages to limit the number of entries that
*     are returned in any single operation (which can help an authorized
*     client circumvent search size limit
 restrictions).  It can also help
*     ensure that if the server can return entries faster than the client can
*     consume them, it will not result in a large backlog on the server.
*     <BR><BR>
*     The simple paged results request control will be used by default if the
*     server root DSE advertises support for it, with a default page size of
*     100 entries.
*     <BR><BR>
*   </LI>
*   <LI>
*     Manage DSA IT Request Control -- A standard request control that is
*     supported by several types of directory servers.  This control indicates
*     that any referral entries (that is, entries that contain the "referral"
*     object class and a "ref" attribute) should be treated as regular entries
*     rather than triggering a referral result or a search result reference.
*     The subtree deleter will not make any attempt to follow referrals, and
*     if any referral or search result reference results are returned during
*     processing, then it may not
 be possible to completely remove all entries
*     in the target subtree.
*     <BR><BR>
*     The manage DSA IT request control will be used by default if the server
*     root DSE advertises support for it.
*     <BR><BR>
*   </LI>
*   <LI>
*     Permit Unindexed Search Request Control -- A proprietary request
*     control supported by the Ping Identity, UnboundID, and
*     Nokia/Alcatel-Lucent 8661 Directory Server products.  This control
*     indicates that the client wishes to process the search even if it is
*     unindexed.
*     <BR><BR>
*     The permit unindexed search request control will not automatically be
*     used.  It may not needed if the requester has the unindexed-search
*     privilege, and the permit unindexed search request control requires that
*     the caller have either the unindexed-search or
*     unindexed-search-with-control privilege.  If the
*     {@link #setUsePermitUnindexedSearchControlIfAvailable} method is called
*     with
 a value of {@code true}, then this control will be used if the
*     server root DSE advertises support for it.
*     <BR><BR>
*   </LI>
```

```
*   <LI>
*    LDAP Subentries Request Control -- A standard request control that is
*    supported by several types of directory servers.  It allows the client
*    to request a search that retrieves entries with the "ldapSubentry"
*    object class, which are normally excluded from search results.  Note that
*    because of the nature of this control, if it is to be used, then two
*    separate sets of searches will be used:  one that retrieves only
*    LDAP subentries, and a second that retrieves other types of entries.
*    <BR><BR>
*    The LDAP subentries request control will be used by default if the server
*    root DSE advertises support for it.
*    <BR><BR>
*   </LI>
*   <LI>
*    Return Conflict Entries Request Control -- A proprietary request control
*    that is supported by the Ping Identity, UnboundID,
 and
*    Nokia/Alcatel-Lucent 8661 Directory Server products.  This control
*    indicates that the server should return replication conflict entries,
*    which are normally excluded from search results.
*    <BR><BR>
*    The return conflict entries request control will be used by default if
*    the server root DSE advertises support for it.
*    <BR><BR>
*   </LI>
*   <LI>
*    Soft-Deleted Entry Access Request Control -- A proprietary request
*    control that is supported by the Ping Identity, UnboundID, and
*    Nokia/Alcatel-Lucent 8661 Directory Server products.  This control
*    indicates that the server should return soft-deleted entries, which are
*    normally excluded from search results.
*    <BR><BR>
*    The soft-deleted entry access request control will be used by default if
*    the server root DSE advertises support for it.
*    <BR><BR>
*   <LI>
*    Hard Delete Request Control -- A proprietary request control that is
*    supported
 by the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661
*    Directory Server products.  This control indicates that the server
*    should process a delete operation as a hard delete, even if a
*    soft-delete policy would have otherwise converted it into a soft delete.
*    A subtree cannot be deleted if it contains soft-deleted entries, so this
*    should be used if the server is configured with such a soft-delete
*    policy.
*    <BR><BR>
*    The hard delete request control will be used by default if the server
*    root DSE advertises support for it.
```

*

* </LI>
* </UL>
*/

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*/
/**
* This class provides an implementation of a request control that can be
* included in a bind request to indicate that the server should include a

```
* control int eh bind response with information about recent login attempts
* for the user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.61 and no value.  The
* criticality may be either {@code true} or {@code false}.
*
* @see  GetRecentLoginHistoryRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetRecentLoginHistoryRequestControl.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of replication assurance processing for a delete operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/DeleteAssuranceCompletedAccessLogMessage.java
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*/
/**
* This interface provide an API that may be used to handle intermediate
* response messages returned as part of processing for an
* {@link CollectSupportDataExtendedRequest}.  It provides specific support for
* the {@link CollectSupportDataOutputIntermediateResponse} and
* {@link CollectSupportDataArchiveFragmentIntermediateResponse} intermediate
* response types, but also allows handling other types of intermediate
* responses as well.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see  CollectSupportDataExtendedRequest
* @see  CollectSupportDataExtendedResult
* @see  CollectSupportDataArchiveFragmentIntermediateResponse
* @see  CollectSupportDataOutputIntermediateResponse
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataIntermediateResponseListener.java
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*/
/**
* This class provides a data structure that contains information about a
* replica contained in a replication summary monitor entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicationSummaryReplica.java
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```
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server audit log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This enum defines the set of validation level values that may be used in
* conjunction with the {@link UniquenessRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides a data structure that holds information about an LDAP
* connection handler defined in the configuration of a Ping Identity Directory
* Server instance.  It also provides a utility method for reading a Directory
* Server configuration file to obtain information about the listener instances
* it contains, and it implements the {@code Comparable} interface for ranking
* connection handlers by relative preference for use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This enum defines the set of access log message types.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class implements an extended result that may be returned in response to
* a {@link ReplaceListenerCertificateExtendedRequest}.  See the
* {@link ReplaceCertificateExtendedResult} class for a description of the
* content for the result.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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```

```
*/
/**
* This class defines a Directory Server task that simply sleeps for a specified
* length of time or until a given condition occurs.  It is primarily intended
* to act as a separator between other tasks in a dependency chain.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a
* connection that has been established.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class defines a Directory Server task that can be used to invoke a task
* written as a Groovy script using the UnboundID Server SDK.
* <BR>
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* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The fully-qualified name of the Groovy class providing the logic for
*       the scripted task.  This must be provided.</LI>
*   <LI>A list of the arguments to use for the task.</LI>
* </UL>
*/
```

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/**
* This enum defines a set of change type values that may be used in conjunction
* with the set notification destination extended request.
* <BR>
* <BLOCKQUOTE>
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*   interoperable way with other types of LDAP servers.
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*/
/**
* This class provides a set of utility methods for formatting operation
* results.
```

*
* <BLOCKQUOTE>
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*/
/**
* This class provides an entry point that may be used to launch other tools
* provided as part of the LDAP SDK.  This is primarily a convenience for
* someone who just has the jar file and none of the scripts, since you can run
* "<CODE>java -jar unboundid-ldapsdk.jar {tool-name} {tool-args}</CODE>"
* in order to invoke any of the example tools.  Running just
* "<CODE>java -jar unboundid-ldapsdk.jar</CODE>" will display version
* information about the LDAP SDK.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>
  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The tool names are case-insensitive.  Supported tool names include:
* <UL>
*   <LI>authrate -- Launch the {@link AuthRate} tool.</LI>
*   <LI>base64 -- Launch the {@link Base64Tool} tool.</LI>
*   <LI>collect-support-data -- Launch the
*       {@link CollectSupportData} tool.</LI>
*   <LI>deliver-one-time-password -- Launch the
*       {@link DeliverOneTimePassword} tool.</LI>
*   <LI>deliver-password-reset-token -- Launch the
*       {@link DeliverPasswordResetToken} tool.</LI>
*   <LI>dump-dns
 -- Launch the {@link DumpDNs} tool.</LI>
*   <LI>generate-schema-from-source -- Launch the
*       {@link GenerateSchemaFromSource} tool.</LI>
*   <LI>generate-source-from-schema -- Launch the
*       {@link GenerateSourceFromSchema} tool.</LI>
*   <LI>generate-totp-shared-secret -- Launch the
*       {@link GenerateTOTPSharedSecret} tool.</LI>
*   <LI>identify-references-to-missing-entries -- Launch the
*       {@link IdentifyReferencesToMissingEntries} tool.</LI>
*   <LI>identify-unique-attribute-conflicts -- Launch the
*       {@link IdentifyUniqueAttributeConflicts} tool.</LI>
*   <LI>indent-ldap-filter -- Launch the {@link IndentLDAPFilter} tool.</LI>
```

```
*   <LI>in-memory-directory-server -- Launch the
*       {@link InMemoryDirectoryServerTool} tool.</LI>
*   <LI>ldapcompare -- Launch the {@link LDAPCompare} tool.</LI>
*   <LI>ldapdelete -- Launch the {@link LDAPDelete} tool.</LI>
*   <LI>ldapmodify -- Launch the {@link LDAPModify} tool.</LI>
*   <LI>ldappasswordmodify
 -- Launch the {@link LDAPPasswordModify} tool.</LI>
*   <LI>ldapsearch -- Launch the {@link LDAPSearch} tool.</LI>
*   <LI>ldap-debugger -- Launch the {@link LDAPDebugger} tool.</LI>
*   <LI>ldap-diff -- Launch the {@link LDAPDiff} tool.</LI>
*   <LI>ldap-result-code -- Launch the {@link LDAPResultCode} tool.</LI>
*   <LI>ldifmodify -- Launch the {@link LDIFModify} tool.</LI>
*   <LI>ldifsearch -- Launch the {@link LDIFSearch} tool.</LI>
*   <LI>ldif-diff -- Launch the {@link LDIFDiff} tool.</LI>
*   <LI>manage-account -- Launch the {@link ManageAccount} tool.</LI>
*   <LI>manage-certificates -- Launch the {@link ManageCertificates} tool.</LI>
*   <LI>modrate -- Launch the {@link ModRate} tool.</LI>
*   <LI>move-subtree -- Launch the {@link MoveSubtree} tool.</LI>
*   <LI>oid-lookup -- Launch the {@link OIDLookup} tool.</LI>
*   <LI>parallel-update -- Launch the {@link ParallelUpdate} tool.</LI>
*   <LI>register-yubikey-otp-device -- Launch the
*       {@link RegisterYubiKeyOTPDevice}
 tool.</LI>
*   <LI>searchrate -- Launch the {@link SearchRate} tool.</LI>
*   <LI>search-and-mod-rate -- Launch the {@link SearchAndModRate} tool.</LI>
*   <LI>split-ldif -- Launch the {@link SplitLDIF} tool.</LI>
*   <LI>subtree-accessibility -- Launch the {@link SubtreeAccessibility}
*       tool.</LI>
*   <LI>summarize-access-log -- Launch the {@link SummarizeAccessLog}
*       tool.</LI>
*   <LI>test-ldap-sdk-performance -- Launch the {@link TLSCipherSuiteSelector}
*       tool.</LI>
*   <LI>tls-cipher-suite-selector -- Launch the {@link TLSCipherSuiteSelector}
*       tool.</LI>
*   <LI>transform-ldif -- Launch the {@link TransformLDIF} tool.</LI>
*   <LI>validate-ldap-schema -- Launch the {@link ValidateLDAPSchema}
*       tool.</LI>
*   <LI>validate-ldif -- Launch the {@link ValidateLDIF} tool.</LI>
*   <LI>version -- Display version information for the LDAP SDK.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/Launcher.java
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*/
/**
* This class provides a tool that can be used to search an LDAP directory
* server repeatedly using multiple threads, and then modify each entry
* returned by that server.  It can help provide an estimate of the combined
* search and modify performance that a directory server is able to achieve.
* Either or both of the base DN and the search filter may be a value pattern as
* described in the {@link ValuePattern} class.  This makes it possible to
* search over a range of entries rather than repeatedly performing
 searches
* with the same base DN and filter.
* <BR><BR>
* Some of the APIs demonstrated by this example include:
* <UL>
*   <LI>Argument Parsing (from the {@code com.unboundid.util.args}
```

```
*      package)</LI>
*   <LI>LDAP Command-Line Tool (from the {@code com.unboundid.util}
*      package)</LI>
*   <LI>LDAP Communication (from the {@code com.unboundid.ldap.sdk}
*      package)</LI>
*   <LI>Value Patterns (from the {@code com.unboundid.util} package)</LI>
* </UL>
* <BR><BR>
* All of the necessary information is provided using command line arguments.
* Supported arguments include those allowed by the {@link LDAPCommandLineTool}
* class, as well as the following additional arguments:
* <UL>
*   <LI>"-b {baseDN}" or "--baseDN {baseDN}" -- specifies the base DN to use
*      for the searches.  This must be provided.  It may be a simple DN, or it
*      may be a value pattern to express a range of base DNs.</LI>
*   <LI>"-s {scope}" or "--scope {scope}" --
 specifies the scope to use for the
*      search.  The scope value should be one of "base", "one", "sub", or
*      "subord".  If this isn't specified, then a scope of "sub" will be
*      used.</LI>
*   <LI>"-f {filter}" or "--filter {filter}" -- specifies the filter to use for
*      the searches.  This must be provided.  It may be a simple filter, or it
*      may be a value pattern to express a range of filters.</LI>
*   <LI>"-A {name}" or "--attribute {name}" -- specifies the name of an
*      attribute that should be included in entries returned from the server.
*      If this is not provided, then all user attributes will be requested.
*      This may include special tokens that the server may interpret, like
*      "1.1" to indicate that no attributes should be returned, "*", for all
*      user attributes, or "+" for all operational attributes.  Multiple
*      attributes may be requested with multiple instances of this
*      argument.</LI>
*   <LI>"-m
 {name}" or "--modifyAttribute {name}" -- specifies the name of the
*      attribute to modify.  Multiple attributes may be modified by providing
*      multiple instances of this argument.  At least one attribute must be
*      provided.</LI>
*   <LI>"-l {num}" or "--valueLength {num}" -- specifies the length in bytes to
*      use for the values of the target attributes to modify.  If this is not
*      provided, then a default length of 10 bytes will be used.</LI>
*   <LI>"-C {chars}" or "--characterSet {chars}" -- specifies the set of
*      characters that will be used to generate the values to use for the
*      target attributes to modify.  It should only include ASCII characters.
*      Values will be generated from randomly-selected characters from this
*      set.  If this is not provided, then a default set of lowercase
*      alphabetic characters will be used.</LI>
*   <LI>"-t {num}" or "--numThreads {num}" -- specifies the number of
*      concurrent
```

threads to use when performing the searches. If this is not
*   provided, then a default of one thread will be used.</LI>
*   <LI>"-i {sec}" or "--intervalDuration {sec}" -- specifies the length of
*   time in seconds between lines out output. If this is not provided,
*   then a default interval duration of five seconds will be used.</LI>
*   <LI>"-I {num}" or "--numIntervals {num}" -- specifies the maximum number of
*   intervals for which to run. If this is not provided, then it will
*   run forever.</LI>
*   <LI>"--iterationsBeforeReconnect {num}" -- specifies the number of search
*   iterations that should be performed on a connection before that
*   connection is closed and replaced with a newly-established (and
*   authenticated, if appropriate) connection.</LI>
*   <LI>"-r {ops-per-second}" or "--ratePerSecond {ops-per-second}" --
*   specifies the target number of operations to perform per second. Each
*   search
and modify operation will be counted separately for this
*   purpose, so if a value of 1 is specified and a search returns two
*   entries, then a total of three seconds will be required (one for the
*   search and one for the modify for each entry). It is still necessary
*   to specify a sufficient number of threads for achieving this rate. If
*   this option is not provided, then the tool will run at the maximum rate
*   for the specified number of threads.</LI>
*   <LI>"--variableRateData {path}" -- specifies the path to a file containing
*   information needed to allow the tool to vary the target rate over time.
*   If this option is not provided, then the tool will either use a fixed
*   target rate as specified by the "--ratePerSecond" argument, or it will
*   run at the maximum rate.</LI>
*   <LI>"--generateSampleRateFile {path}" -- specifies the path to a file to
*   which sample data will be written illustrating and
describing the
*   format of the file expected to be used in conjunction with the
*   "--variableRateData" argument.</LI>
*   <LI>"--warmUpIntervals {num}" -- specifies the number of intervals to
*   complete before beginning overall statistics collection.</LI>
*   <LI>"--timestampFormat {format}" -- specifies the format to use for
*   timestamps included before each output line. The format may be one of
*   "none" (for no timestamps), "with-date" (to include both the date and
*   the time), or "without-date" (to include only time time).</LI>
*   <LI>"-Y {authzID}" or "--proxyAs {authzID}" -- Use the proxied
*   authorization v2 control to request that the operations be processed
*   using an alternate authorization identity. In this case, the bind DN
*   should be that of a user that has permission to use this control. The
*   authorization identity may be a value pattern.</LI>
*   <LI>"--suppressErrorResultCodes" -- Indicates that
information about the
*   result codes for failed operations should not be displayed.</LI>
*   <LI>"-c" or "--csv" -- Generate output in CSV format rather than a
*   display-friendly format.</LI>

* </UL>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/SearchAndModRate.java
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*/
/**
* This class provides an implementation of an extended request that can be used
* to trigger the delivery of a temporary single-use token to a specified user
* via some out-of-band mechanism. It can be used for security purposes
* (e.g., as part of step-up authentication), for data validation purposes

```
* (e.g., to verify that a user can receive e-mail messages at a given address
* or SMS messages at a given phone number), or for other purposes in which it
* could be useful to deliver and consume a token
 through some out-of-band
* mechanism.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of "1.3.6.1.4.1.30221.2.6.49" and it must
* have a value with the following encoding:
* <PRE>
*   DeliverSingleUseTokenRequestValue ::= SEQUENCE {
*       userDN                    LDAPDN,
*       tokenID                   OCTET STRING,
*       validityDurationMillis        [0] INTEGER OPTIONAL,
*       messageSubject                [1] OCTET STRING OPTIONAL,
*
   fullTextBeforeToken           [2] OCTET STRING OPTIONAL,
*       fullTextAfterToken            [3] OCTET STRING OPTIONAL,
*       compactTextBeforeToken        [4] OCTET STRING OPTIONAL,
*       compactTextAfterToken         [5] OCTET STRING OPTIONAL,
*       preferredDeliveryMechanism    [6] SEQUENCE OF SEQUENCE {
*           mechanismName     OCTET STRING,
*           recipientID       OCTET STRING OPTIONAL },
*       deliverIfPasswordExpired      [7] BOOLEAN DEFAULT FALSE,
*       deliverIfAccountLocked        [8] BOOLEAN DEFAULT FALSE,
*       deliverIfAccountDisabled      [9] BOOLEAN DEFAULT FALSE,
*       deliverIfAccountExpired       [10] BOOLEAN DEFAULT FALSE,
*       ... }
* </PRE>
*
* @see  DeliverSingleUseTokenExtendedResult
* @see  ConsumeSingleUseTokenExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverSingleUseTokenExtendedRequest.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* computing a modulus from a digest of the RDN.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for
```

proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIFRDNHashTranslator.java
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*/
/**

```
* This class provides a utility that uses the stream directory values extended
* operation in order to obtain a listing of all entry DNs below a specified
* base DN in the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality
 or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The APIs demonstrated by this example include:
* <UL>
*   <LI>The use of the stream directory values extended operation.</LI>
*   <LI>Intermediate response processing.</LI>
*   <LI>The LDAP command-line tool API.</LI>
*   <LI>Argument parsing.</LI>
* </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/examples/DumpDNs.java
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*/
/**
* This class defines a Directory Server task that can be used to request that
* the server refresh the encryption settings database from disk. It does not
* have any custom configuration properties.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
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*/
/**
* This class provides an implementation of an extended request that may be used
* to deregister a YubiKey OTP device with the Directory Server so that it may
* no longer used to authenticate using the UNBOUNDID-YUBIKEY-OTP SASL
* mechanism.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.55, and it must
* include a request value with the following encoding:
* <BR><BR>
* <PRE>
*   DeregisterYubiKeyOTPDeviceRequest ::= SEQUENCE {
```

```
*       authenticationID     [0] OCTET STRING OPTIONAL,
*       staticPassword       [1] OCTET STRING OPTIONAL,
*       yubiKeyOTP           [2] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*
*
* @see  RegisterYubiKeyOTPDeviceExtendedRequest
* @see  com.unboundid.ldap.sdk.unboundidds.UnboundIDYubiKeyOTPBindRequest
* @see  com.unboundid.ldap.sdk.unboundidds.RegisterYubiKeyOTPDevice
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeregisterYubiKeyOTPDeviceExtendedRequest.java
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/**
* This class defines the base class for all JSON object filter types, which are
* used to perform matching against JSON objects stored in a Ping Identity,
* UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server via the
* jsonObjectFilterExtensibleMatch matching rule.  The
* {@link #toLDAPFilter(String)} method can be used to easily create an LDAP
* filter from a JSON object filter.  This filter will have an attribute type
* that is the name of an attribute with the JSON object syntax, a matching rule
 * ID of "jsonObjectFilterExtensibleMatch", and an assertion value that is the
* string representation of the JSON object that comprises the filter.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* For example, given the JSON object filter:
* <PRE>
*   { "filterType" : "equals", "field" : "firstName", "value" : "John" }
* </PRE>
* the resulting LDAP filter targeting attribute "jsonAttr" would have a string
* representation as follows (without the line break that has been added for
* formatting purposes):
 * <PRE>
*   (jsonAttr:jsonObjectFilterExtensibleMatch:={ "filterType" : "equals",
*   "field" : "firstName", "value" : "John" })
* </PRE>
* <BR><BR>
* JSON object filters are themselves expressed in the form of JSON objects.
* All filters must have a "filterType" field that indicates what type of filter
* the object represents, and the filter type determines what other fields may
* be required or optional for that type of filter.
* <BR><BR>
* <H2>Types of JSON Object Filters</H2>
* This implementation supports a number of different types of filters to use
* when matching JSON objects.  Supported JSON object filter types are as
* follows:
* <H3>Contains Field</H3>
```

```
* This filter can be used to determine whether a JSON object has a specified
* field, optionally with a given type of value.  For example, the following can
* be used to determine whether a JSON object contains a top-level field named
* "department" that has any kind of value:
* <PRE>
*   { "filterType"
 : "containsField",
*     "field" : "department" }
* </PRE>
* <BR>
* <H3>Equals</H3>
* This filter can be used to determine whether a JSON object has a specific
* value for a given field.  For example, the following can be used to determine
* whether a JSON object has a top-level field named "firstName" with a value of
* "John":
* <PRE>
*   { "filterType" : "equals",
*     "field" : "firstName",
*     "value" : "John" }
* </PRE>
* <BR>
* <H3>Equals Any</H3>
* This filter can be used to determine whether a JSON object has any of a
* number of specified values for a given field.  For example, the following can
* be used to determine whether a JSON object has a top-level field named
* "userType" with a value that is either "employee", "partner", or
* "contractor":
* <PRE>
*   { "filterType" : "equalsAny",
*     "field" : "userType",
*     "values" : [  "employee", "partner", "contractor" ] }
* </PRE>
* <BR>
* <H3>Greater Than</H3>
* This filter can be used to
 determine whether a JSON object has a specified
* field with a value that is greater than (or optionally greater than or equal
* to) a given numeric or string value.  For example, the following filter would
* match any JSON object with a top-level field named "salary" with a numeric
* value that is greater than or equal to 50000:
* <PRE>
*   { "filterType" : "greaterThan",
*     "field" : "salary",
*     "value" : 50000,
*     "allowEquals" : true }
* </PRE>
* <BR>
* <H3>Less Than</H3>
```

```
* This filter can be used to determine whether a JSON object has a specified
* field with a value that is less than (or optionally less than or equal to) a
* given numeric or string value.  For example, the following filter will match
* any JSON object with a "loginFailureCount" field with a numeric value that is
* less than or equal to 3.
* <PRE>
*   { "filterType" : "lessThan",
*     "field" : "loginFailureCount",
*     "value" : 3,
*     "allowEquals" : true }
* </PRE>
* <BR>
 * <H3>Substring</H3>
* This filter can be used to determine whether a JSON object has a specified
* field with a string value that starts with, ends with, and/or contains a
* particular substring.  For example, the following filter will match any JSON
* object with an "email" field containing a value that ends with
* "@example.com":
* <PRE>
*   { "filterType" : "substring",
*     "field" : "email",
*     "endsWith" : "@example.com" }
* </PRE>
* <BR>
* <H3>Regular Expression</H3>
* This filter can be used to determine whether a JSON object has a specified
* field with a string value that matches a given regular expression.  For
* example, the following filter can be used to determine whether a JSON object
* has a "userID" value that starts with an ASCII letter and contains only
* ASCII letters and numeric digits:
* <PRE>
*   { "filterType" : "regularExpression",
*     "field" : "userID",
*     "regularExpression" : "^[a-zA-Z][a-zA-Z0-9]*$" }
* </PRE>
* <BR>
* <H3>Object
 Matches</H3>
* This filter can be used to determine whether a JSON object has a specified
* field with a value that is itself a JSON object that matches a given JSON
* object filter.  For example, the following filter can be used to determine
* whether a JSON object has a "contact" field with a value that is a JSON
* object with a "type" value of "home" and an "email" field with any kind of
* value:
* <PRE>
*   { "filterType" : "objectMatches",
*     "field" : "contact",
*     "filter" : {
```

```
*       "filterType" : "and",
*       "andFilters" : [
*         { "filterType" : "equals",
*           "field" : "type",
*           "value" : "home" },
*         { "filterType" : "containsField",
*           "field" : "email" } ] } }
* </PRE>
* <BR>
* <H3>AND</H3>
* This filter can be used to perform a logical AND across a number of filters,
* so that the AND filter will only match a JSON object if each of the
* encapsulated filters matches that object.  For example,
 the following filter
* could be used to match any JSON object with both a "firstName" field with a
* value of "John" and a "lastName" field with a value of "Doe":
* <PRE>
*   { "filterType" : "and",
*     "andFilters" : [
*       { "filterType" : "equals",
*         "field" : "firstName",
*         "value" : "John" },
*       { "filterType" : "equals",
*         "field" : "lastName",
*         "value" : "Doe" } ] }
* </PRE>
* <BR>
* <H3>OR</H3>
* This filter can be used to perform a logical OR (or optionally, a logical
* exclusive OR) across a number of filters so that the filter will only match
* a JSON object if at least one of the encapsulated filters matches that
* object.  For example, the following filter could be used to match a JSON
* object that has either or both of the "homePhone" or "workPhone" field with
* any kind of value:
* <PRE>
*   { "filterType" : "or",
*     "orFilters" : [
*       { "filterType" : "containsField",
*         "field" : "homePhone"
 },
*       { "filterType" : "containsField",
*         "field" : "workPhone" } ] }
* </PRE>
* <BR>
* <H3>Negate</H3>
* This filter can be used to negate the result of an encapsulated filter, so
* that it will only match a JSON object that the encapsulated filter does not
* match.  For example, the following filter will only match JSON objects that
```

```
* do not have a "userType" field with a value of "employee":
* <PRE>
*   { "filterType" : "negate",
*     "negateFilter" : {
*       "filterType" : "equals",
*       "field" : "userType",
*       "value" : "employee" } }
* </PRE>
* <BR><BR>
* <H2>Targeting Fields in JSON Objects</H2>
* Many JSON object filter types need to specify a particular field in the JSON
* object that is to be used for the matching.  Unless otherwise specified in
* the Javadoc documentation for a particular filter type, the target field
* should be specified either as a single string (to target a top-level field in
* the object) or a
 non-empty array of strings (to provide the complete path to
* the target field).  In the case the target field is specified in an array,
* the first (leftmost in the string representation) element of the array will
* specify a top-level field in the JSON object.  If the array contains a second
* element, then that indicates that one of the following should be true:
* <UL>
*   <LI>
*     The top-level field specified by the first element should have a value
*     that is itself a JSON object, and the second element specifies the name
*     of a field in that JSON object.
*   </LI>
*   <LI>
*     The top-level field specified by the first element should have a value
*     that is an array, and at least one element of the array is a JSON object
*     with a field whose name matches the second element of the field path
*     array.
*   </LI>
* </UL>
* Each additional element of the field path array specifies an additional level
* of hierarchy in the JSON object.  For example,
 consider the following JSON
* object:
* <PRE>
*   { "field1" : "valueA",
*     "field2" : {
*       "field3" : "valueB",
*       "field4" : {
*         "field5" : "valueC" } } }
* </PRE>
* In the above example, the field whose value is {@code "valueA"} can be
* targeted using either {@code "field1"} or {@code [ "field1" ]}.  The field
* whose value is {@code "valueB"} can be targeted as
* {@code [ "field2", "field3" ]}.  The field whose value is {@code "valueC"}
```

```
* can be targeted as {@code [ "field2", "field4", "field5" ]}.
* <BR><BR>
* Note that the mechanism outlined here cannot always be used to uniquely
* identify each field in a JSON object.  In particular, if an array contains
* multiple JSON objects, then it is possible that some of those JSON objects
* could have field names in common, and therefore the same field path reference
* could apply to multiple fields.  For example, in the JSON object:
* <PRE>
*   {
*     "contact" : [
*       { "type" : "Home",
 *         "email" : "jdoe@example.net",
*         "phone" : "123-456-7890" },
*       { "type" : "Work",
*         "email" : "john.doe@example.com",
*         "phone" : "789-456-0123" } ] }
* </PRE>
* The field specifier {@code [ "contact", "type" ]} can reference either the
* field whose value is {@code "Home"} or the field whose value is
* {@code "Work"}.  The field specifier {@code [ "contact", "email" ]} can
* reference the field whose value is {@code "jdoe@example.net"} or the field
* whose value is {@code "john.doe@example.com"}.  And the field specifier
* {@code [ "contact", "phone" ]} can reference the field with value
* {@code "123-456-7890"} or the field with value {@code "789-456-0123"}.  This
* ambiguity is intentional for values in arrays because it makes it possible
* to target array elements without needing to know the order of elements in the
* array.
* <BR><BR>
* <H2>Thread Safety of JSON Object Filters</H2>
* JSON object filters are not guaranteed
 to be threadsafe.  Because some filter
* types support a number of configurable options, it is more convenient and
* future-proof to provide minimal constructors to specify values for the
* required fields and setter methods for the optional fields.  These filters
* will be mutable, and any filter that may be altered should not be accessed
* concurrently by multiple threads.  However, if a JSON object filter is not
* expected to be altered, then it may safely be shared across multiple threads.
* Further, LDAP filters created using the {@link #toLDAPFilter} method and
* JSON objects created using the {@link #toJSONObject} method will be
* threadsafe under all circumstances.
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/JSONObjectFilter.java
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*/
/**
* This class provides an {@link LDAPCompare} output handler that will format
* messages as tab-delimited text.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*/
/**
* This class provides a response control that may be included in the response
* to add, modify, and modify DN requests that included the
* {@link UniquenessRequestControl}. It provides information about the
* uniqueness processing that was performed.

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The control has an OID of 1.3.6.1.4.1.30221.2.5.53 and a criticality of
* false.  It must have a value with the following encoding:
* <PRE>
*   UniquenessResponseValue ::= SEQUENCE {
*     uniquenessID               [0] OCTET STRING,
*     preCommitValidationPassed   [1] BOOLEAN OPTIONAL,
*     postCommitValidationPassed  [2] BOOLEAN OPTIONAL,
*     validationMessage           [3] OCTET STRING OPTIONAL,
*     ... }
* </PRE>
*/
```

Found in path(s):
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a compare
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides a tool that can be used to compare the contents of two
* LDAPv3 servers and report the differences in an LDIF file that can be used to
* update the source server to match the target.  It should work with any pair
* of LDAPv3 servers, including servers of different types.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent
 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This tool can be used to determine whether two LDAP replicas are in sync.  It
* can also account for replication delay by checking differing entries multiple
* times.
* <BR><BR>
```

```
* At a minimum, the user must provide information needed to connect and
* authenticate to the two servers to compare, as well as the base DN below
* authenticate to the two servers to compare, as well as the base DN below
* which to search (note that the empty base DN is not supported).  The user can
* optionally also specify a filter used to identify which entries should be
* compared.
* <BR><BR>
* This tool tries to compare the contents of both servers as quickly as
* possible while also maintaining
 a low memory overhead and eliminating false
* positives that result from entries that are temporarily out of sync as a
* result of replication latencies.  It does this using the following approach:
* <UL>
*   <LI>
*     Retrieve the DNs from each server in parallel.  For servers that
*     advertise support for the {@link StreamDirectoryValuesExtendedRequest},
*     then that operation will be used to retrieve the DNs.  Otherwise, a
*     search will be used with the configured base DN, scope, and filter to
*     retrieve all matching entries (without any attributes).
*   </LI>
*   <LI>
*     For up to a configurable number of passes:
*     <OL>
*       <LI>
*         Use a thread pool to iterate through all of the identified entry DNs,
*         fetching and comparing each entry from both servers.  By default,
*         multiple threads will be used to perform the comparison as fast as
*         possible, but this can be configured as needed to adjust the
*
 performance impact on the directory servers.
*       </LI>
*       <LI>
*         If the version of the entry retrieved from each server is the same,
*         then it is considered in sync and will not be compared again.  If the
*         entry differs between the source and target servers, and if there are
*         no more passes to complete, then the differences will be computed and
*         written in LDIF form to an output file.
*       </LI>
*       <LI>
*         If any differing entries were identified, and if there are more
*         passes remaining, then the tool will wait for a specified length of
*         time before re-retrieving and re-comparing each of the entries that
*         differed in the last pass.
*       </LI>
*     </OL>
*   </LI>
* </UL>
* Note that even though the tool operates in parallel, it ensures that the
```

* differences are written to the output file in an appropriate order to ensure
* that they can be replayed. The tool keeps the
 adds, modifies, and deletes
* separate during processing and then joins them at the end in an appropriate
* order (with deletes in reverse order to ensure that children are removed
* before parents, followed by modifies, and finally adds). Intermediate files
* are used during processing to hold the add and modify records to minimize
* memory consumption.
*

* Note that the accounts used to run this tool must be sufficiently privileged
* to perform the necessary processing, including being able to access all of
* the appropriate entries (and all relevant attributes in those entries) in
* each server.
*/

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*/
/**
* This class provides an implementation of a JSON object filter that can
* negate the result of a provided filter.  If the embedded filter matches a
* given JSON object, then this negate filter will not match that object.  If
* the embedded filter does not match a JSON object, then this negate filter
* will match that object.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in a "negate" filter are:
* <UL>
*   <LI>
*     {@code negateFilter} -- The JSON object filter whose match result should
*     be negated.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of a "negate" filter that will match any JSON
* object that does not have a top-level field named "userType" with a value of
* "employee":
* <PRE>
*   { "filterType" : "negate",
*     "negateFilter" : {
*       "filterType" : "equals",
*       "field" : "userType",
*       "value" : "employee" } }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   NegateJSONObjectFilter
 filter = new NegateJSONObjectFilter(
*        new EqualsJSONObjectFilter("userType", "employee"));
```

* </PRE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/NegateJSONObjectFilter.java
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/**
* This class provides an implementation of an extended request that may be used
* to retrieve the set of password quality requirements that the Directory
* Server will impose for a specified operation, which may include adding a new

```
* user (including a password), a user changing his/her own password (a self
* change), or one user changing the password for another user (an
* administrative reset).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.43 and a value with
* the following encoding:
* <PRE>
*   GetPasswordQualityRequirementsRequestValue ::= SEQUENCE {
*       target     CHOICE {
*           addWithDefaultPasswordPolicy          [0] NULL,
*           addWithSpecifiedPasswordPolicy        [1] LDAPDN,
*           selfChangeForAuthorizationIdentity    [2] NULL,
*           selfChangeForSpecifiedUser            [3] LDAPDN,
*           administrativeResetForUser            [4] LDAPDN,
*           ... },
*       ... }
*
 </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetPasswordQualityRequirementsExtendedRequest.java
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*/
/**
* This class provides an implementation of an extended request that can be used
* to retrieve a version of the server configuration.  It may be the active
* configuration, the baseline configuration, or any of the archived
* configurations.  The set of available configurations that may be retrieved
* can be obtained using the {@link ListConfigurationsExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package
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*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.28.  It must have
* a value with the following encoding:
* <PRE>
*   GetConfigurationRequest ::= SEQUENCE {
*        requestType     CHOICE {
*             activeConfiguration       [0] NULL,
```

```
*            baselineConfiguration     [1] OCTET STRING,
*            archivedConfiguration     [2] OCTET STRING,
*            ... },
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConfigurationExtendedRequest.java
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*/
```

```
/**
* This class provide an LDAP command-line tool that may be used to perform
* compare operations in an LDAP directory server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPCompare.java
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*/
/**
* This class provides a request control which may be included in an add request
* to indicate that the contents of the resulting entry should come not from the
* data of the add request itself but instead from a soft-deleted entry.  This
* can be used to recover an entry that was previously removed by a delete
* request containing the {@link SoftDeleteRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package
 structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control should always be {@code TRUE}.  The
* criticality will have no effect on servers that do support this control, but
* a criticality of {@code TRUE} will ensure that a server which does not
* support soft deletes does not attempt to process the add request.  If the
* criticality were {@code FALSE}, then any server that does not support the
* control would simply ignore it and attempt to add the entry specified in the
* add request (which will have details about the undelete to be processed).
* <BR><BR>
* The control may optionally have a value.  If a value is
 provided, then it
* must be the encoded representation of an empty ASN.1 sequence, like:
* <PRE>
*   UndeleteRequestValue ::= SEQUENCE {
*     ... }
* </PRE>
* In the future, the value sequence may allow one or more elements to customize
* the behavior of the undelete operation, but at present no such elements are
* defined.
* See the documentation for the {@link SoftDeleteRequestControl} class for an
* example demonstrating the use of this control.
*
* @see  HardDeleteRequestControl
```

```
* @see  SoftDeleteRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/UndeleteRequestControl.java
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*/
/**
* This class provides a mechanism for ensuring that entries targeted by the
* manage-account tool are processed properly, whether by the thread providing
* the DN of the entry to update, or by a separate worker thread.
```

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountProcessor.java
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyRequestAccessLogMessage.java

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*/
/**
* This class provides an implementation of the account usable response control,
* which may be returned with search result entries to provide information about
* the usability of the associated user accounts.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* Information that may be included in the account usable response control
* includes:
* <UL>
*   <LI>{@code accountIsActive} -- Indicates that the account is active and may
*       include the length of time in seconds until the password expires.</LI>
*   <LI>{@code accountIsInactive} -- Indicates that the account has been locked
*       or deactivated.</LI>
*   <LI>{@code mustChangePassword} -- Indicates that the user must change his
*       or her password before being allowed to perform any other
*       operations.</LI>
*   <LI>{@code passwordIsExpired} -- Indicates that the user's password has
*       expired.</LI>
*   <LI>{@code remainingGraceLogins} -- Indicates the number of grace logins
*       remaining for the user.</LI>
*   <LI>{@code
 secondsUntilUnlock} -- Indicates the length of time in seconds
*       until the account will be automatically unlocked.</LI>
```

```
* </UL>
* See the {@link AccountUsableRequestControl} documentation for an example
* demonstrating the use of the account usable request and response controls.
* <BR><BR>
* This control was designed by Sun Microsystems and is not based on any RFC or
* Internet draft.  The value of this control is encoded as follows:
* <BR><BR>
* <PRE>
* ACCOUNT_USABLE_RESPONSE ::= CHOICE {
*   isUsable     [0] INTEGER, -- Seconds until password expiration --
*   isNotUsable  [1] MORE_INFO }
*
* MORE_INFO ::= SEQUENCE {
*   accountIsInactive     [0] BOOLEAN DEFAULT FALSE,
*   mustChangePassword    [1] BOOLEAN DEFAULT FALSE,
*   passwordIsExpired     [2] BOOLEAN DEFAULT FALSE,
*   remainingGraceLogins  [3] INTEGER OPTIONAL,
*   secondsUntilUnlock    [4] INTEGER OPTIONAL }
* </PRE>
*/
```

Found in path(s):
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*/
/**
* This class provides an implementation of an extended result that provides
* information about the result of processing a
* {@link CollectSupportDataExtendedRequest}.  Once this message has been
* received, all processing for the associated request will be complete, and
* there should not be any further
* {@link CollectSupportDataOutputIntermediateResponse} or
* {@link CollectSupportDataArchiveFragmentIntermediateResponse} messages.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes
 within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the extended operation processing failed for some reason before the server
* could invoke the collect-support-data tool, then this response may not
* include an OID or value.  However, if the collect-support-data tool has been
* invoked (regardless of its success or failure), then the extended result
* should have an OID of1.3.6.1.4.1.30221.2.6.67 and a value with the following
* encoding:
* <BR>
* <PRE>
*   CollectSupportDataResponse ::= SEQUENCE {
*     exitCode     [0] INTEGER,
*     ... }
* </PRE>
*
* @see
```

CollectSupportDataExtendedRequest
* @see CollectSupportDataArchiveFragmentIntermediateResponse
* @see CollectSupportDataOutputIntermediateResponse
*/

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*/
/**
* This class provides a data structure that holds information about a log

```
* message that may appear in the Directory Server access log about a client
* certificate that has been presented to the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ClientCertificateAccessLogMessage.java
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  */

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPMessages.java
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/**
* This class provides an implementation of an extended result that may be used
* to provide information about the result of processing for a deliver
* single-use token extended request.  If the token was delivered successfully,
* then this result will include information about the mechanism through which
* the token was delivered.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the request was processed successfully, then the extended result will have
* an OID of 1.3.6.1.4.1.30221.2.6.50 and a value with the following encoding:
* <BR><BR>
* <PRE>
*   DeliverSingleUseTokenResult ::= SEQUENCE {
*       deliveryMechanism     OCTET STRING,
*       recipientID           [0] OCTET STRING OPTIONAL,
*       message               [1] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*
* @see  DeliverSingleUseTokenExtendedRequest
* @see  ConsumeSingleUseTokenExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverSingleUseTokenExtendedResult.java
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*/
/**
* This class defines a Directory Server task that can be used to cause the
* server to execute a specified command with a given set of arguments.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server imposes limitation on the commands that can be executed and on the
* circumstances in which they can be invoked.  See the
* exec-command-whitelist.txt file in the server's config directory for a
```

* summary of these restrictions, and for additional information about exec
* tasks.
*

* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The absolute path to the command to execute. This must be
*   provided.</LI>
*   <LI>An optional string with arguments to provide to the command.</LI>
*   <LI>An optional path to a file to which the command's output should be
*   written.</LI>
*   <LI>An optional boolean flag that indicates whether to log the command's
*   output to the server error log.</LI>
*   <LI>An optional string that specifies the task
 state that should be used
*   if the command completes with a nonzero exit code.</LI>
*   <LI>An optional string that specifies the path to the working directory to
*   use when executing the command.</LI>
* </UL>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ExecTask.java
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*/
/**
* This class provides a request control which may be used to request that
* entries below one or more base DNs be excluded from the results returned to
* a client while processing a search operation.  For example, this may be
* useful in cases where you want to perform a search below "dc=example,dc=com",
* but want to exclude all entries below "ou=private,dc=example,dc=com".
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code true} or {@code false}.
* It must have a value with the following encoding:
* <PRE>
*   ExcludeBranchRequest ::= SEQUENCE {
*        baseDNs     [0] SEQUENCE OF LDAPDN,
*        ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/ExcludeBranchRequestControl.java
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/**
* This class defines a data structure that will provide information about
* errors that may affect an account's usability.  It includes a number of
* predefined error types, but also allows for the possibility of additional
* error types that have not been defined.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
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*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateAccountUsabilityError.java
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*/
/**
* This class provides support for an UnboundID-proprietary SASL mechanism that
* provides multifactor authentication using the combination of a client
* certificate (presented during SSL/TLS negotiation) and a static password.
*

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* The name for this SASL mechanism is "UNBOUNDID-CERTIFICATE-PLUS-PASSWORD".
* The SASL credentials consist simply of the static password for the user
* identified by the certificate, to make the SASL mechanism as easy as possible
* to use from other client APIs.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDCertificatePlusPasswordBindRequest.java
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*/
/**
* This class provides a thread that may be used to periodically display
* progress information for the parallel update program.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/tools/ParallelUpdateProgressMonitor.java
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/**
* This class provides a search result listener that will be used by the
* {@link MoveSubtree#moveSubtreeWithRestrictedAccessibility} method.  It will
* accept entries identified in the source server and add them to the target
* server.
* <BR>
* <BLOCKQUOTE>
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jar/com/unboundid/ldap/listener/InMemoryDirectoryServerEqualityAttributeIndex.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DNSSRVRecordServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/BasicAsyncCompareResultListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/TransactionExtendedOperationHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SASLOption.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SRVRecordSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/PasswordModifyExtendedOperationHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SASLMechanismInfo.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryListenerConfig.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryExtendedOperationHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SASLUtils.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/PLAINBindHandler.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ArgumentListArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/GSSAPIBindRequestProperties.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemorySASLBindHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/BasicAsyncResultListener.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryDirectoryServerSnapshot.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/DontUseCopyRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPRuntimeException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/OperationType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/WeakHashSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryDirectoryServerConfig.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/StartTLSRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/BasicAsyncSearchResultListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryDirectoryServerTool.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/LDAPSDKThreadFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/TeeOutputStream.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SRVRecord.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncTimeoutTimerTask.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SRVRecordPrioritySet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/PersistFilterType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/LDAPTestUtils.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/WhoAmIExtendedOperationHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/RequestControlPreProcessor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/CommonAsyncHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/GenericSASLBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/InMemoryDirectoryServer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ReadFromFilePasswordProvider.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/AggregateInputStream.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/PasswordProvider.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/ReadOnlyInMemoryDirectoryServerConfig.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a the
* result of an entry rebalancing operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/EntryRebalancingResultAccessLogMessage.java
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*/
/**
* This class defines a Directory Proxy Server task that can be used to reload
* the contents of the global index.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable
 or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
```

```
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The base DN for the entry-balancing request processor.</LI>
*   <LI>An optional set of attributes for which to reload the index
*       information.</LI>
*   <LI>A flag indicating whether to perform the reload in the background.</LI>
*   <LI>A flag indicating whether to reload entries from backend Directory
*       Server instances rather than a peer Directory Proxy Server
*       instance.</LI>
*   <LI>An optional maximum number of entries per second to access when
*       priming.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ReloadGlobalIndexTask.java
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*/
/**
* This interface defines a set of methods that will be invoked when an
* intermediate response is returned in the course of processing a get changelog
* batch extended operation.  It may be used to process changelog entries as
* they are returned by the server rather than accessing them in a list when the
* extended result has been received.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported
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* </BLOCKQUOTE>
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```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ChangelogEntryListener.java

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*/
/**
* This class provides a request control which may be included in a delete
* request to indicate that the server should perform a soft delete rather than
* a hard delete.  A soft delete will leave the entry in the server, but will
* mark it hidden so that it can only be retrieved with a special request
* (e.g., one which includes the {@link SoftDeletedEntryAccessRequestControl} or
* a filter which includes an "(objectClass=ds-soft-deleted-entry)" component).
* A soft-deleted entry may later be undeleted
 (using an add request containing
* the {@link UndeleteRequestControl}) in order to restore them with the same or
* a different DN.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code TRUE} or {@code FALSE},
* but this will only impact how the delete request is to be handled by servers
* which do not support this control.  A criticality of {@code TRUE} will cause
* any server which does not support this control to reject the request, while
* a criticality
 of {@code FALSE} should cause the delete request to be
* processed as if the control had not been included (i.e., as a regular "hard"
* delete).
```

```
* <BR><BR>
* The control may optionally have a value.  If a value is provided, then it
* must be the encoded representation of the following ASN.1 element:
* <PRE>
*   SoftDeleteRequestValue ::= SEQUENCE {
*     returnSoftDeleteResponse     [0] BOOLEAN DEFAULT TRUE,
*     ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the soft delete request control
* to remove the "uid=test,dc=example,dc=com" user with a soft delete operation,
* and then to recover it with an undelete operation:
* <PRE>
* // Perform a search to verify that the test entry exists.
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", "test"));
* SearchResult searchResult = connection.search(searchRequest);
* LDAPTestUtils.assertEntriesReturnedEquals(searchResult,
 1);
* String originalDN = searchResult.getSearchEntries().get(0).getDN();
*
* // Perform a soft delete against the entry.
* DeleteRequest softDeleteRequest = new DeleteRequest(originalDN);
* softDeleteRequest.addControl(new SoftDeleteRequestControl());
* LDAPResult softDeleteResult = connection.delete(softDeleteRequest);
*
* // Verify that a soft delete response control was included in the result.
* SoftDeleteResponseControl softDeleteResponseControl =
*      SoftDeleteResponseControl.get(softDeleteResult);
* String softDeletedDN = softDeleteResponseControl.getSoftDeletedEntryDN();
*
* // Verify that the original entry no longer exists.
* LDAPTestUtils.assertEntryMissing(connection, originalDN);
*
* // Verify that the original search no longer returns any entries.
* searchResult = connection.search(searchRequest);
* LDAPTestUtils.assertNoEntriesReturned(searchResult);
*
* // Verify that the search will return an entry if we include the
 * // soft-deleted entry access control in the request.
* searchRequest.addControl(new SoftDeletedEntryAccessRequestControl());
* searchResult = connection.search(searchRequest);
* LDAPTestUtils.assertEntriesReturnedEquals(searchResult, 1);
*
* // Perform an undelete operation to restore the entry.
* AddRequest undeleteRequest = UndeleteRequestControl.createUndeleteRequest(
*      originalDN, softDeletedDN);
```

```
* LDAPResult undeleteResult = connection.add(undeleteRequest);
*
* // Verify that the original entry is back.
* LDAPTestUtils.assertEntryExists(connection, originalDN);
*
* // Permanently remove the original entry with a hard delete.
* DeleteRequest hardDeleteRequest = new DeleteRequest(originalDN);
* hardDeleteRequest.addControl(new HardDeleteRequestControl());
* LDAPResult hardDeleteResult = connection.delete(hardDeleteRequest);
* </PRE>
* Note that this class provides convenience methods that can be used to easily
* create a delete request containing an appropriate
 soft delete request
* control.  Similar methods can be found in the
* {@link HardDeleteRequestControl} and {@link UndeleteRequestControl} classes
* for creating appropriate hard delete and undelete requests, respectively.
*
* @see  HardDeleteRequestControl
* @see  SoftDeleteResponseControl
* @see  SoftDeletedEntryAccessRequestControl
* @see  UndeleteRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/SoftDeleteRequestControl.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an unbind
* request received from a client.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/UnbindRequestAccessLogMessage.java
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*/
/**
* This class defines a monitor entry that provides general information about
* the state of the Directory Server entry cache.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered
 stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information that may be available in the entry cache monitor entry
* includes:
* <UL>
*   <LI>The number of cache tries, which are attempts to retrieve entries from
*       the cache.</LI>
*   <LI>The number of cache hits, which are successful attempts to retrieve an
*       entry from the cache.</LI>
```

```
*   <LI>The number of cache misses, which are unsuccessful attempts to retrieve
*       an entry from the cache.</LI>
*   <LI>The cache hit ratio, which is the ratio of the time that a cache try is
*       successful.</LI>
*   <LI>The number of entries currently held in the cache.</LI>
*   <LI>The maximum number of entries that may be held in the cache.</LI>
*   <LI>The approximate current amount of memory consumed by the cache.</LI>
*   <LI>The maximum amount of memory that may be consumed by the cache.</LI>
* </UL>
* The
 server should present at most one client connection monitor entry.  It
* can be retrieved using the
* {@link MonitorManager#getEntryCacheMonitorEntry} method.  This entry provides
* specific methods for accessing information about the entry cache (e.g., the
* {@link EntryCacheMonitorEntry#getCurrentCount} method can be used
* to retrieve the number of entries currently in the cache).  Alternately, this
* information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/EntryCacheMonitorEntry.java
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*/
/**
* This class implements a data structure which encapsulates the value of an
* intermediate client response value. It may recursively embed intermediate
* client response values from upstream servers.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* See the documentation in the {@link IntermediateClientRequestControl} class
* for an example of using the intermediate client request and response
* controls.
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/IntermediateClientResponseValue.java
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/**
* This class defines a Directory Server task that can be used to dump
* information about the contents of a backend which stores its data in a
* Berkeley DB Java Edition database.  It reports information about the total
* number of keys, total and average key size, and total an average value size
* for all of the databases in the environment, and the percentage of the total
* live data size contained in each database.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*
   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
```

```
* <UL>
*   <LI>The backend ID of the backend for to be examined.  The specified
*       backend must be enabled and must store its contents in the Berkeley DB
*       Java Edition.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/DumpDBDetailsTask.java
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/**
```

```
* This class defines an extended request that may be used to request that a
* Ping Identity Directory Server instance (or related Ping Identity server
* product) replace its listener certificate.  The new certificate data may be
* contained in a key store file on the server filesystem or included in the
* extended request itself.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.68 and a value with
* the following encoding:
* <PRE>
*   ReplaceListenerCertificateValue ::= SEQUENCE {
*     keyStoreContent                   CHOICE {
*       keyStoreFile                    [0]  KeyStoreFileSequence,
*       keyStoreData                    [1]  KeyStoreDataSequence,
*       certificateData                 [2]  CertificateDataSequence,
*       ... },
*     keyManagerProvider                [3]  OCTET STRING,
*     trustBehavior                     CHOICE {
*       trustManagerProvider            [4] OCTET STRING,
 *       useJVMDefaultTrustManagerProvider       [5] NULL,
*       ... },
*     targetCertificateAlias            [6]  OCTET STRING OPTIONAL,
*     reloadHTTPConnectionHandlerCertificates  [7]  BOOLEAN DEFAULT FALSE,
*     skipCertificateValidation         [16] BOOLEAN DEFAULT FALSE,
*     ... }
*
*   KeyStoreFileSequence ::= SEQUENCE {
*     path                [8]  OCTET STRING,
*     keyStorePIN         [9]  OCTET STRING,
*     privateKeyPIN       [10] OCTET STRING OPTIONAL,
*     keyStoreType        [11] OCTET STRING OPTIONAL,
*     sourceCertificateAlias  [12] OCTET STRING OPTIONAL,
*     ... }
*
*   KeyStoreDataSequence ::= SEQUENCE {
*     keyStoreData        [13] OCTET STRING,
*     keyStorePIN         [9]  OCTET STRING,
*     privateKeyPIN       [10]  OCTET STRING OPTIONAL,
```

```
*     keyStoreType           [11] OCTET STRING OPTIONAL,
*     sourceCertificateAlias  [12] OCTET STRING OPTIONAL,
*     ... }
*
*   CertificateDataSequence
 ::= SEQUENCE {
*     certificateChain  [14] SEQUENCE SIZE (1..MAX) OF OCTET STRING,
*     privateKey        [15] OCTET STRING OPTIONAL,
*     ... }
* </PRE>
* <BR><BR>
*
* @see  ReplaceListenerCertificateExtendedResult
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceListenerCertificateExtendedRequest.java
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*/
/**
* This class provides an implementation of a get changelog batch change
* selection criteria value that indicates that the server should only return
* changes which target all or more of the specified attributes.  The changes
* may target other attributes as well, but all of the associated attributes
* must be included in the change.
* <BR>
* <BLOCKQUOTE>
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/AllAttributesChangeSelectionCriteria.java
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*/
/**
* This class provides the default changelog entry listener that will be used if
* none is explicitly provided for the associated get changelog batch extended
* operation.  It will collect the changelog entries in a list that will be made
* available as part of the extended result.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/DefaultChangelogEntryListener.java
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*/
/**
* This class defines a monitor entry that provides information about the group
* cache and the number and types of groups available in the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
*/
```

Found in path(s):

* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/GroupCacheMonitorEntry.java
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*/
/**
* This class defines a numeric gauge monitor entry, which obtains its
* information from a numeric value in a monitor entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/NumericGaugeMonitorEntry.java
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```
*/
/**
* This class provides a request control which may be included in a search
* request to indicate that the server should provide the number of entries that
* match the search criteria.  The count will be included in the search result
* done message, and all search result entries will be suppressed.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Whenever possible, the server will use index information to quickly identify
* entries matching the criteria of the associated search request.  However, if
* the count is only determined using index information, then that count may
* include entries that would not actually be returned to the client in the
* course of processing that search (e.g., because the client doesn't have
* permission to access the entry, or because it is a special "operational"
* entry like an LDAP subentry, replication conflict entry, or soft-deleted
* entry).  Indicating that the server should always examine candidate entries
* will increase the length of time to obtain the matching entry
 count, but will
* ensure that the count will not include entries that would not otherwise be
* returned by that search.
* <BR><BR>
* Also note that this control is not compatible for use with other controls
* that may cause only a subset of entries to be returned, including the simple
* paged results control and the virtual list view control.  It is also not
* compatible for use with other controls that may cause the server to return
* more entries than those that match the search criteria, like the LDAP join
* control.
* <BR><BR>
* The OID for a matching entry count request control is
* "1.3.6.1.4.1.30221.2.5.36", and it may have a criticality of either
* {@code true} or {@code false}.  It must include a value with the following
* encoding:
* <PRE>
*   MatchingEntryCountRequest ::= SEQUENCE {
*        maxCandidatesToExamine          [0] INTEGER (0 .. MAX) DEFAULT 0,
*        alwaysExamineCandidates         [1] BOOLEAN DEFAULT FALSE,
*        processSearchIfUnindexed
```

```
        [2] BOOLEAN DEFAULT FALSE,
*       includeDebugInfo                [3] BOOLEAN DEFAULT FALSE,
*       skipResolvingExplodedIndexes    [4] BOOLEAN DEFAULT FALSE,
*       fastShortCircuitThreshold       [5] INTEGER (0 .. MAX) OPTIONAL,
*       slowShortCircuitThreshold       [6] INTEGER (0 .. MAX) OPTIONAL,
*       includeExtendedResponseData     [7] BOOLEAN DEFAULT FALSE,
*       ... }
* </PRE>
*
* @see  MatchingEntryCountResponseControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/MatchingEntryCountRequestControl.java
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*/
/**
* This class implements a thread that may be used to process operations in
* a directory server.  It will have its own connection to the Directory Server
* and will loop, reading and applying changes until no more are available.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ParallelUpdateOperationThread.java

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*/
/**
* This class provides a search result listener that will be used by the
* {@link MoveSubtree#moveEntryWithInteractiveTransaction} method.  It will
* accept entries identified in the source server and add them to the target
* server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a set of methods for retrieving Directory Server monitor
* entries.  In particular, it provides methods for retrieving all monitor
* entries from the server, as well as retrieving monitor entries of specific
* types.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* <H2>Example</H2>
* The following example demonstrates the process for retrieving all monitor
* entries published by the directory server and printing the information
* contained in each using the generic API for accessing monitor entry data:
* <PRE>
```

```
* List&lt;MonitorEntry&gt; allMonitorEntries =
*      MonitorManager.getMonitorEntries(connection);
* for (MonitorEntry e : allMonitorEntries)
* {
*   String monitorName = e.getMonitorName();
*   String displayName = e.getMonitorDisplayName();
*   Map&lt;String,MonitorAttribute&gt; monitorAttributes =
*        e.getMonitorAttributes();
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/MonitorManager.java
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/**
* This class provides a {@link ReplaceCertificateKeyStoreContent}
* implementation to indicate that the server should use a certificate key store
* file contained on the server filesystem.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

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*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have a particular value for a specified
* field.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "equals" filter are:
* <UL>
*   <LI>
*     {@code fieldName} -- A field path specifier for the JSON field for which
*     to make the determination.  This may be either a single string or an
*     array of strings as described in the "Targeting Fields in JSON Objects"
*     section of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
*   <LI>
*     {@code value} -- The value to match.  This value may be of any type.  In
*     order for a JSON object to match the equals filter, the value of the
*     target field must either have the same type value as this value, or the
*     value of the target field must be an array containing at least one
*     element with the same type and value.  If the provided value is an array,
*
     then the order, types, and values of the array must match an array
*     contained in the target field.  If the provided value is a JSON object,
*     then the target field must contain a JSON object with exactly the same
```

```
*     set of fields and values.
*   </LI>
* </UL>
* The fields that may optionally be included in an "equals" filter are:
* <UL>
*   <LI>
*     {@code caseSensitive} -- Indicates whether string values should be
*     treated in a case-sensitive manner.  If present, this field must have a
*     Boolean value of either {@code true} or {@code false}.  If it is not
*     provided, then a default value of {@code false} will be assumed so that
*     strings are treated in a case-insensitive manner.
*   </LI>
* </UL>
* <H2>Examples</H2>
* The following is an example of an "equals" filter that will match any JSON
* object with a top-level field named "firstName" with a value of "John":
* <PRE>
*   { "filterType" : "equals",
*     "field" : "firstName",
 *     "value" : "John" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   EqualsJSONObjectFilter filter =
*        new EqualsJSONObjectFilter("firstName", "John");
* </PRE>
* The following is an example of an "equals" filter that will match a JSON
* object with a top-level field named "contact" whose value is a JSON object
* (or an array containing one or more JSON objects) with a field named "type"
* and a value of "home":
* <PRE>
*   { "filterType" : "equals",
*     "field" : [ "contact", "type" ],
*     "value" : "home" }
* </PRE>
* That filter can be created with the code:
* <PRE>
*   EqualsJSONObjectFilter filter =
*        new EqualsJSONObjectFilter(Arrays.asList("contact", "type"), "Home");
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/EqualsJSONObjectFilter.java
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*/
/**
* This class provides an enhanced implementation of the {@link RootDSE} class
* that provides access to additional attributes that may be included in the
* root DSE of a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have string value that matches a specified
* substring. At least one of the {@code startsWith}, {@code contains}, and

```
* {@code endsWith} components must be included in the filter.  If multiple
* substring components are present, then any matching value must contain all
* of those components, and the components must not overlap.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other
 classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in a "substring" filter are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which
*     to make the determination.  This may be either a single string or an
*     array of strings as described in the "Targeting Fields in JSON Objects"
*     section of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
* </UL>
* The fields that may optionally be included in a "substring" filter are:
* <UL>
*   <LI>
*     {@code startsWith}
 -- A string that must appear at the beginning of
*     matching values.
*   </LI>
*   <LI>
*     {@code contains} -- A string, or an array of strings, that must appear in
*     matching values.  If this is an array of strings, then a matching value
*     must contain all of these strings in the order provided in the array.
*   </LI>
*   <LI>
*     {@code endsWith} -- A string that must appear at the end of matching
*     values.
*   </LI>
*   <LI>
*     {@code caseSensitive} -- Indicates whether string values should be
*     treated in a case-sensitive manner.  If present, this field must have a
*     Boolean value of either {@code true} or {@code false}.  If it is not
*     provided, then a default value of {@code false} will be assumed so that
*     strings are treated in a case-insensitive manner.
*   </LI>
* </UL>
```

```
* <H2>Examples</H2>
* The following is an example of a substring filter that will match any JSON
* object with a top-level field named "accountCreateTime"
 with a string value
* that starts with "2015":
* <PRE>
*   { "filterType" : "substring",
*     "field" : "accountCreateTime",
*     "startsWith" : "2015" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   SubstringJSONObjectFilter filter =
*        new SubstringJSONObjectFilter("accountCreateTime", "2015", null,
*             null);
* </PRE>
* <BR><BR>
* The following is an example of a substring filter that will match any JSON
* object with a top-level field named "fullName" that contains the substrings
* "John" and "Doe", in that order, somewhere in the value:
* <PRE>
*   { "filterType" : "substring",
*     "field" : "fullName",
*     "contains" : [ "John", "Doe" ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   SubstringJSONObjectFilter filter =
*        new SubstringJSONObjectFilter(Collections.singletonList("fullName"),
*             null, Arrays.asList("John", "Doe"), null);
* </PRE>
*/

Found
 in path(s):
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jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/SubstringJSONObjectFilter.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SynchronizedSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/FastestConnectServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/MultiServerLDAPCommandLineTool.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/ValidityDateTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ParallelPoolConnector.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/AggregateTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ParallelPoolConnectorTask.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Base32.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/HostNameTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ParallelPoolCloserTask.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SynchronizedSSLSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/FastestConnectThread.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/TrailingSpaceBehavior.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/DuplicateValueBehavior.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SASLBindInProgressException.java
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*/
/**
* This class provides a data structure that holds information about the result
* of a move subtree operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a delete

```
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

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/**
* This class defines an extended request that may be used to request that a
* Ping Identity Directory Server instance (or related Ping Identity server
* product) purge information about any retired inter-server certificates from
* its topology registry.  This extended request has an OID of
* 1.3.6.1.4.1.30221.2.6.71 and no value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*
* @see  PurgeRetiredInterServerCertificatesExtendedResult
*/
```

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*/
/**
* This enum defines a set of error types that may be included in the password
* policy response control as defined in draft-behera-ldap-password-policy.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a delete
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
  * Retrieves a list of lines containing information about the LDAP SDK
  * version.
  *
  * @return  A list of lines containing information about the LDAP SDK
  *          version.
  */
```

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* This package contains implementations for a number of LDAP controls which are
* specific to the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661
* Directory Server products.  In some cases, they may be based on standard
* controls which have not yet reached a sufficient stability level to make them
* available for general use against any kind of server, while in other cases
* they may be defined specifically for use with the Ping Identity, UnboundID,
* and Nokia/Alcatel-Lucent 8661 Directory Server.
```

```
 * <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The classes within this package, and elsewhere within the
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* </BLOCKQUOTE>
*/
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*/
/**
* This class implements a data structure which encapsulates the value of an
* intermediate client request value.  It may recursively embed intermediate
* client request values from downstream clients.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* See the documentation in the {@link IntermediateClientRequestControl} class
* for an example of using the intermediate client request and response
* controls.
*/
```

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*/
/**
* This class provides information about the types of alarm severities that may
* be included in alarm entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a compare operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides an implementation of a get changelog batch change
* selection criteria value that indicates that the server should only return
* changes that are associated with a specified notification destination, as
* specified by the entryUUID for the notification destination to target.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID,
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/NotificationDestinationChangeSelectionCriteria.java
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*/
/**
* This class provides an implementation of a get changelog batch change
```

* selection criteria value that indicates that the server should not return
* changes which target only the specified attributes. This can be useful for
* ignoring changes to attributes which are changed frequently but not of
* interest to the client. Note that changes returned may include changes to
* these attributes, but only if the change targets other attributes that should
* not be ignored.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B>
  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/extensions/IgnoreAttributesChangeSelectionCriteria.java
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*/
/**
* This class provides an implementation of an extended request that can be used
* to identify potential incompatibility problems between two backup
* compatibility descriptor values.  This can be used to determine whether a
* backup from one server (or an older version of the same server) could be
* restored into another server (or a newer version of the same server).  It
* may also be useful in determining whether replication initialization via
* binary copy may be performed between two servers.
* <BR>
 * <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.32.  It must have
* a value with the following encoding:
* <PRE>
*   IdentifyBackupCompatibilityProblemsRequest ::= SEQUENCE {
*        sourceDescriptor     [0] OCTET STRING,
*        targetDescriptor     [1] OCTET STRING,
*        ... }
* </PRE>
*
* @see  IdentifyBackupCompatibilityProblemsExtendedResult
* @see  GetBackupCompatibilityDescriptorExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/IdentifyBackupCompatibilityProblemsExtendedRequest.java

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*/
/**
* This class provides a comparator that may be used to define a relative order
* for search filters.  The filter order will be based first on the filter type
* (in the following order:   AND, OR, NOT, equality, substring,
* greater-or-equal, less-or-equal, presence, approximate match, extensible
* match), then based on the attribute name, and then by the assertion value.
* For AND and OR filters, with all other things equal, a filter with fewer
* components will be ordered before one with more components.
  For a substring
* filter with all other things equal, then a filter missing a substring element
```

```
* will be ordered before one with that element, and one with fewer subAny
* elements will be ordered before one with more subAny elements.  For an
* extensible match filter with all other things being equal, a filter without
* an element will be ordered before one with that element.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a data structure that may be used to hold a reusable
* secret key for use in conjunction with {@link AES256EncodedPassword}
* objects. Reusing a secret key avoids the (potentially significant) cost of
* generating it for each encryption and decryption operation.
*
* <BLOCKQUOTE>
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This enum defines an assurance level that may be used for servers in
* different locations from the server receiving the change.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a tool that can be used to search an LDAP directory
* server repeatedly using multiple threads.  It can help provide an estimate of
* the search performance that a directory server is able to achieve.  Either or
* both of the base DN and the search filter may be a value pattern as
* described in the {@link ValuePattern} class.  This makes it possible to
* search over a range of entries rather than repeatedly performing searches
* with the same base DN and filter.
* <BR><BR>
* Some
 of the APIs demonstrated by this example include:
* <UL>
*   <LI>Argument Parsing (from the {@code com.unboundid.util.args}
*       package)</LI>
*   <LI>LDAP Command-Line Tool (from the {@code com.unboundid.util}
*       package)</LI>
*   <LI>LDAP Communication (from the {@code com.unboundid.ldap.sdk}
*       package)</LI>
*   <LI>Value Patterns (from the {@code com.unboundid.util} package)</LI>
* </UL>
```

```
* <BR><BR>
* All of the necessary information is provided using command line arguments.
* Supported arguments include those allowed by the {@link LDAPCommandLineTool}
* class, as well as the following additional arguments:
* <UL>
*   <LI>"-b {baseDN}" or "--baseDN {baseDN}" -- specifies the base DN to use
*       for the searches.  This must be provided.  It may be a simple DN, or it
*       may be a value pattern to express a range of base DNs.</LI>
*   <LI>"-s {scope}" or "--scope {scope}" -- specifies the scope to use for the
*       search.  The scope value should
 be one of "base", "one", "sub", or
*       "subord".  If this isn't specified, then a scope of "sub" will be
*       used.</LI>
*   <LI>"-z {num}" or "--sizeLimit {num}" -- specifies the maximum number of
*       entries that should be returned in response to each search
*       request.</LI>
*   <LI>"-l {num}" or "--timeLimitSeconds {num}" -- specifies the maximum
*       length of time, in seconds, that the server should spend processing
*       each search request.</LI>
*   <LI>"--dereferencePolicy {value}" -- specifies the alias dereferencing
*       policy that should be used for each search request.  Allowed values are
*       "never", "always", "search", and "find".</LI>
*   <LI>"--typesOnly" -- indicates that search requests should have the
*       typesOnly flag set to true, indicating that matching entries should
*       only include attributes with an attribute description but no
*       values.</LI>
*   <LI>"-f {filter}" or "--filter {filter}" -- specifies
 the filter to use for
*       the searches.  This must be provided.  It may be a simple filter, or it
*       may be a value pattern to express a range of filters.</LI>
*   <LI>"-A {name}" or "--attribute {name}" -- specifies the name of an
*       attribute that should be included in entries returned from the server.
*       If this is not provided, then all user attributes will be requested.
*       This may include special tokens that the server may interpret, like
*       "1.1" to indicate that no attributes should be returned, "*", for all
*       user attributes, or "+" for all operational attributes.  Multiple
*       attributes may be requested with multiple instances of this
*       argument.</LI>
*   <LI>"--ldapURL {url}" -- Specifies an LDAP URL that represents the base DN,
*       scope, filter, and set of requested attributes that should be used for
*       the search requests.  It may be a simple LDAP URL, or it may be a value
*       pattern to express a
 range of LDAP URLs.  If this argument is provided,
*       then none of the --baseDN, --scope, --filter, or --attribute arguments
*       may be used.</LI>
*   <LI>"-t {num}" or "--numThreads {num}" -- specifies the number of
*       concurrent threads to use when performing the searches.  If this is not
*       provided, then a default of one thread will be used.</LI>
```

```
*   <LI>"-i {sec}" or "--intervalDuration {sec}" -- specifies the length of
*       time in seconds between lines out output.  If this is not provided,
*       then a default interval duration of five seconds will be used.</LI>
*   <LI>"-I {num}" or "--numIntervals {num}" -- specifies the maximum number of
*       intervals for which to run.  If this is not provided, then it will
*       run forever.</LI>
*   <LI>"--iterationsBeforeReconnect {num}" -- specifies the number of search
*       iterations that should be performed on a connection before that
*       connection is closed and replaced with a newly-established
 (and
*       authenticated, if appropriate) connection.</LI>
*   <LI>"-r {searches-per-second}" or "--ratePerSecond {searches-per-second}"
*       -- specifies the target number of searches to perform per second.  It
*       is still necessary to specify a sufficient number of threads for
*       achieving this rate.  If this option is not provided, then the tool
*       will run at the maximum rate for the specified number of threads.</LI>
*   <LI>"--variableRateData {path}" -- specifies the path to a file containing
*       information needed to allow the tool to vary the target rate over time.
*       If this option is not provided, then the tool will either use a fixed
*       target rate as specified by the "--ratePerSecond" argument, or it will
*       run at the maximum rate.</LI>
*   <LI>"--generateSampleRateFile {path}" -- specifies the path to a file to
*       which sample data will be written illustrating and describing the
*       format of the file
 expected to be used in conjunction with the
*       "--variableRateData" argument.</LI>
*   <LI>"--warmUpIntervals {num}" -- specifies the number of intervals to
*       complete before beginning overall statistics collection.</LI>
*   <LI>"--timestampFormat {format}" -- specifies the format to use for
*       timestamps included before each output line.  The format may be one of
*       "none" (for no timestamps), "with-date" (to include both the date and
*       the time), or "without-date" (to include only time time).</LI>
*   <LI>"-Y {authzID}" or "--proxyAs {authzID}" -- Use the proxied
*       authorization v2 control to request that the operation be processed
*       using an alternate authorization identity.  In this case, the bind DN
*       should be that of a user that has permission to use this control.  The
*       authorization identity may be a value pattern.</LI>
*   <LI>"-a" or "--asynchronous" -- Indicates that searches should be performed
*       in
 asynchronous mode, in which the client will not wait for a response
*       to a previous request before sending the next request.  Either the
*       "--ratePerSecond" or "--maxOutstandingRequests" arguments must be
*       provided to limit the number of outstanding requests.</LI>
*   <LI>"-O {num}" or "--maxOutstandingRequests {num}" -- Specifies the maximum
*       number of outstanding requests that will be allowed in asynchronous
*       mode.</LI>
*   <LI>"--suppressErrorResultCodes" -- Indicates that information about the
*       result codes for failed operations should not be displayed.</LI>
```

```
*   <LI>"-c" or "--csv" -- Generate output in CSV format rather than a
*       display-friendly format.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/SearchRate.java
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*/
/**
* This class provides support for an UnboundID-proprietary SASL mechanism that
* uses the time-based one-time password mechanism (TOTP) as described in
```

```
* <A HREF="http://www.ietf.org/rfc/rfc6238.txt">RFC 6238</A>, optionally (based
* on the server configuration) in conjunction with a static password for a form
* of multifactor authentication.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*
 supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The name for this SASL mechanism is "UNBOUNDID-TOTP".  An UNBOUNDID-TOTP SASL
* bind request MUST include SASL credentials with the following ASN.1 encoding:
* <BR><BR>
* <PRE>
* UnboundIDTOTPCredentials ::= SEQUENCE {
*   authenticationID  [0] OCTET STRING,
*   authorizationID   [1] OCTET STRING OPTIONAL,
*   totpPassword      [2] OCTET STRING,
*   staticPassword    [3] OCTET STRING OPTIONAL }
* </PRE>
* <BR><BR>
* Note that this class is abstract, with two different concrete
* implementations:  the {@link SingleUseTOTPBindRequest} class may be used for
* cases in which the one-time password will be obtained
 from an external source
* (e.g., provided by the user, perhaps using the Google Authenticator
* application), and the {@link ReusableTOTPBindRequest} class may be used for
* cases in which the one-time password should be generated by the LDAP SDK
* itself.  Because the {@code SingleUseTOTPBindRequest} class contains a
* point-in-time password, it cannot be used for re-authentication (e.g., for
* use with a connection pool, following referrals, or with the auto-reconnect
* feature).  If TOTP authentication should be used in contexts where one or
* more of these may be needed, then the dynamic variant should be used.
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDTOTPBindRequest.java
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/**
* This package provides a number of classes that implement support for
* interacting with JSON objects in the Ping Identity, UnboundID, or
* Nokia/Alcatel-Lucent 8661 Directory Server.  This primarily includes JSON
* object filters (which are an UnboundID-proprietary mechanism for performing
* advanced matching on JSON object contents), but also contains other classes
* in support for interacting with JSON in the Ping Identity, UnboundID, or
* Nokia/Alcatel-Lucent 8661 Directory Server.
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
```

```
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server
* provides a "JSON Object" attribute syntax, which has an OID of
* "1.3.6.1.4.1.30221.2.3.4", and can be used for attribute types whose values
* are valid JSON objects.  This attribute type supports equality matching
* (with the jsonObjectExactMatch matching rule as described below, but does not
* support substring or ordering matching.  To create an attribute type
* definition
 that uses the JSON object syntax, use a definition like the
* following (but with the appropriate attribute type name and a non-example
* OID):
* <PRE>
*   attributeTypes: ( 2.999.1.2.3.4
*     NAME 'example-json-attribute'
*     EQUALITY jsonObjectExactMatch
*     SYNTAX 1.3.6.1.4.1.30221.2.3.4 )
* </PRE>
* <BR>
* <H2>Matching with the jsonObjectExactMatch Matching Rule</H2>
* The jsonObjectExactMatch matching rule (OID 1.3.6.1.4.1.30221.2.4.12) is an
* equality matching rule that can be used to perform exact matching against
* JSON objects.  It can be used in an equality search filter whose attribute
* description names an attribute with a JSON object syntax and whose assertion
* value is the string representation of a JSON object to match against values
* of the specified attribute.  For example:
* <BLOCKQUOTE>
*   (jsonAttr={ "field1" : "value1", "field2":"value2" })
* </BLOCKQUOTE>
* <BR>
* The jsonObjectExactMatch matching rule will also be used to perform matching
 * for a compare operation that targets attributes with a JSON object syntax,
* and it will be used internally by the server to prevent an attribute with
* that syntax from having duplicate values, and to identify which value is
* targeted by a modification that attempts to delete a specific value.
* <BR><BR>
* The constraints that the jsonObjectExactMatch matching rule will use when
* determining whether two JSON objects are equal are:
* <UL>
*   <LI>The names of the fields in each object must be identical, although the
*       order in which the fields appear in the string representation is not
*       significant.  Neither object will be permitted to have a field that is
*       not present in the other object.  Field names will be treated in a
*       case-sensitive manner (e.g., a field named "x" will be considered
*       different from a field named "X").</LI>
*   <LI>The values of fields with the same name must be of the same data type.
```

```
*       For example,
 the string "true" will not match the Boolean {@code true},
*       the string "1234" will not match the number 1234, and the string "null"
*       will not match the {@code null} value.  Similarly, a single non-array
*       value will not match an array, even if the array contains only that
*       value (e.g., so a value of "a" will not match ["a"]).</LI>
*   <LI>The values of fields with the same name must be logically equivalent.
*       Logical equivalence is defined as follows for each data type:
*       <UL>
*         <LI>{@code null} will only match {@code null}.</LI>
*         <LI>{@code true} will only match {@code true}.</LI>
*         <LI>{@code false} will only match {@code false}.</LI>
*         <LI>Strings will be compared in a case-insensitive manner, but all
*             spaces will be considered significant.  This will use logic
*             equivalent to the {@code String.equalsIgnoreCase} method.</LI>
*         <LI>Numbers will only match other numbers
 with equivalent numeric
*             values, even if they are expressed with different string
*             representations.  For example, the number 12345 will match the
*             number 12345.0 and the number 1.2345e4.  Floating-point numbers
*             with nonzero fractional components will not match integer numbers
*             without fractional components (e.g., 12345 will not match
*             12345.1).</LI>
*         <LI>Arrays will only match arrays containing logically-equivalent
*             values in the same order.</LI>
*         <LI>JSON objects that appear as field values or inside arrays will
*             use the logic presented here.</LI>
*       </UL>
*   </LI>
* </UL>
* <BR>
* The matching performed by the jsonObjectExactMatch matching rule is
* equivalent to that performed by the multi-argument {@code JSONObject.equals}
* method with {@code ignoreFieldNameCase=false}, {@code ignoreValueCase=true},
* and {@code ignoreArrayOrder=false}.
 * <BR>
* <H2>Matching with the jsonObjectFilterExtensibleMatch Matching Rule</H2>
* The jsonObjectFilterExtensibleMatch matching rule (OID
* 1.3.6.1.4.1.30221.2.4.13) provides a much greater degree of flexibility for
* performing matching against JSON objects than the jsonObjectExactMatch
* matching rule, but it is only expected to be used in LDAP filters that
* perform extensible matching (<B>NOTE</B>:  do not attempt to use the
* jsonObjectFilterExtensibleMatch matching rule as the default equality
* matching rule for attribute types).  In such filters, the filter should
* include an attribute description that names an attribute with the JSON object
* syntax, a matching rule ID of jsonObjectFilterExtensibleMatch (or the numeric
* OID 1.3.6.1.4.1.30221.2.4.13), and an assertion value that is a JSON object
* that defines the constraints for identifying which JSON objects to match.
```

```
* For example:
* <BLOCKQUOTE>
*   (jsonAttr:jsonObjectFilterExtensibleMatch:={ "filterType":"fieldEquals",
 *       "fieldName":"field1", "fieldValue":"value1" })
* </BLOCKQUOTE>
* <BR>
* All JSON object filters must include a field named "filterType" that
* indicates the type of matching to be performed.  The other fields that are
* required to be present, or that may optionally be present, vary based on the
* specified filter type.  See the class-level documentation for each of the
* {@link com.unboundid.ldap.sdk.unboundidds.jsonfilter.JSONObjectFilter}
* subclasses for detailed information about the type of matching performed by
* that type of filter, as well as the sets of required and optional fields for
* that filter type.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/package-info.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server error log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
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*/
/**
* This class provides a thread that may be used to parallelize the process of
* searching for entries on which to invoke password policy state operations.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountSearchProcessorThread.java
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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at a change identified by a
* replication CSN.  The first change of the batch will be the change with this
* CSN.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/ResumeWithCSNStartingPoint.java
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*/
/**
* This interface defines a number of methods common to all types of operation
* result access log messages.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
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* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/MinimalOperationResultAccessLogMessage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/OperationResultAccessLogMessage.java
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*/
/**
* This enum defines the output stream values that may be used in conjunction

```
* with the {@link CollectSupportDataOutputIntermediateResponse}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
*
* @see  CollectSupportDataExtendedRequest
* @see  CollectSupportDataOutputIntermediateResponse
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataOutputStream.java
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*/
/**
* This class provides a thread that may be used to parallelize the process of
* invoking password policy state operations.
*
* <BLOCKQUOTE>
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jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountProcessorThread.java
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/**
* This class provides a response control that may be used to provide the
* backend set ID(s) for any relevant backend sets accessed during the course
* of processing an operation.  It may be returned in response to a request
* containing either the get backend set ID request control or the route to
* backend set request control.  For add, simple bind, compare, delete,
* modify, and modify DN operations, the LDAP result message for the operation
* may contain zero or one get backend set ID response control.
  For extended
* operations, the extended result message may contain zero, one, or multiple
* get backend set ID response controls.  For search operations, each search
* result entry may contain zero or one get backend set ID response control,
* while the search result done message will not contain any such control.  See
* the {@link GetBackendSetIDRequestControl} class documentation for a more
* complete description of the usage for these controls.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The
```

get backend set ID response control has an OID of
* "1.3.6.1.4.1.30221.2.5.34", a criticality of false, and a value with the
* following encoding:
* <PRE>
*   GET_BACKEND_SET_ID_RESPONSE_VALUE ::= SEQUENCE {
*   entryBalancingRequestProcessorID   OCTET STRING,
*   backendSetIDs   SET SIZE (1..MAX) OF OCTET STRING,
*   ... }
* </PRE>
*
* @see GetBackendSetIDRequestControl
* @see RouteToBackendSetRequestControl
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/GetBackendSetIDResponseControl.java
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/**
* This class provides an implementation of the proxied authorization V2
* request control, as defined in
* <A HREF="http://www.ietf.org/rfc/rfc4370.txt">RFC 4370</A>.  It may be used
* to request that the associated operation be performed as if it has been
* requested by some other user.
* <BR><BR>
* The target authorization identity for this control is specified as an
* "authzId" value as described in section 5.2.1.8 of
* <A HREF="http://www.ietf.org/rfc/rfc4513.txt">RFC 4513</A>.  That is, it
* should
 be either "dn:" followed by the distinguished name of the target user,
* or "u:" followed by the username.  If the "u:" form is used, then the
* mechanism used to resolve the provided username to an entry may vary from
* server to server.
* <BR><BR>
* This control may be used in conjunction with add, delete, compare, delete,
* extended, modify, modify DN, and search requests.  In that case, the
* associated operation will be processed under the authority of the specified
* authorization identity rather than the identity associated with the client
* connection (i.e., the user as whom that connection is bound).  Note that
* because of the inherent security risks associated with the use of the proxied
* authorization control, most directory servers which support its use enforce
* strict restrictions on the users that are allowed to request this control.
* If a user attempts to use the proxied authorization V2 request control and
* does not have sufficient permission to do
 so, then the server will return a
* failure response with the {@link ResultCode#AUTHORIZATION_DENIED} result
* code.
* <BR><BR>
* There is no corresponding response control for this request control.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the proxied authorization V2
* control to delete an entry under the authority of the user with username
* "alternate.user":
* <PRE>
* // Create a delete request to delete an entry.  Include the proxied
* // authorization v2 request control in the delete request so that the
* // delete will be processed as the user with username "alternate.user"
* // instead of the user that's actually authenticated on the connection.
```

```
* DeleteRequest deleteRequest =
*      new DeleteRequest("uid=test.user,ou=People,dc=example,dc=com");
* deleteRequest.addControl(new ProxiedAuthorizationV2RequestControl(
*      "u:alternate.user"));
*
* LDAPResult deleteResult;
* try
* {
*   deleteResult = connection.delete(deleteRequest);
 *   // If we got here, then the delete was successful.
* }
* catch (LDAPException le)
* {
*   // The delete failed for some reason.  In addition to all of the normal
*   // reasons a delete could fail (e.g., the entry doesn't exist, or has one
*   // or more subordinates), proxied-authorization specific failures may
*   // include that the authenticated user doesn't have permission to use the
*   // proxied authorization control to impersonate the alternate user, that
*   // the alternate user doesn't exist, or that the alternate user doesn't
*   // have permission to perform the requested operation.
*   deleteResult = le.toLDAPResult();
*   ResultCode resultCode = le.getResultCode();
*   String errorMessageFromServer = le.getDiagnosticMessage();
* }
* </PRE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ProxiedAuthorizationV2RequestControl.java
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*/
/**
* This class defines a data structure that will provide information about
* errors that could cause an authentication attempt to fail. It includes a
* number of predefined failure types, but also allows for the possibility of
* additional failure types that have not been defined.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides an implementation of the batched transaction
* specification request control, which may be used to indicate that the
* associated add, delete, modify, modify DN, or password modify operation is
* part of a batched transaction.  The transaction should be created with the
* start batched transaction extended operation, which will obtain a transaction
* ID, and the transaction may be committed or aborted using the end batched
* transaction extended operation.
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 *   interoperable way with other types of LDAP servers.
```

* </BLOCKQUOTE>
*
* Note that directory servers may limit the set of controls that are available
* for use in requests that are part of a transaction. RFC 5805 section 4
* indicates that the following controls may be used in conjunction with the
* transaction specification request control: {@link AssertionRequestControl},
* {@link ManageDsaITRequestControl}, {@link PreReadRequestControl}, and
* {@link PostReadRequestControl}. The
* {@link ProxiedAuthorizationV1RequestControl} and
* {@link ProxiedAuthorizationV2RequestControl}
 controls cannot be included in
* requests that are part of a transaction, but you can include them in the
* {@link StartBatchedTransactionExtendedRequest} to indicate that all
* operations within the transaction should be processed with the specified
* authorization identity.
*

* The Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products
* support the following additional UnboundID-specific controls in conjunction
* with operations included in a transaction:
* {@link AccountUsableRequestControl}, {@link HardDeleteRequestControl},
* {@link IntermediateClientRequestControl},
* {@link PasswordPolicyRequestControl},
* {@link ReplicationRepairRequestControl}, {@link SoftDeleteRequestControl},
* {@link SoftDeletedEntryAccessRequestControl},
* {@link SubtreeDeleteRequestControl}, and {@link UndeleteRequestControl}.
*

* See the documentation for the {@link StartBatchedTransactionExtendedRequest}
* class for an
 example of processing a batched transaction.
*/

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jar/com/unboundid/ldap/sdk/unboundidds/controls/BatchedTransactionSpecificationRequestControl.java
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*/
/**
* This class provides a collect support data log capture window implementation
* that indicates that the tool should capture information for a specified
* length of time up to the time the {@link CollectSupportDataExtendedRequest}
* was received.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
*
* @see  CollectSupportDataExtendedRequest
*/

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jar/com/unboundid/ldap/sdk/unboundidds/extensions/DurationCollectSupportDataLogCaptureWindow.java
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*/
/**
* This enum defines an assurance level that may be used for servers in the
* same location as the server receiving the change.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
```

```
* This class provides an implementation of an extended result that can be used
* to provide information about the processing for a
* {@link MultiUpdateExtendedRequest}.  The OID for this result is
* 1.3.6.1.4.1.30221.2.6.18, and the value (if present) should have the
* following encoding:
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* <PRE>
*   MultiUpdateResultValue ::= SEQUENCE {
*       changesApplied     ENUMERATED {
*           none       (0),
*           all        (1),
*           partial    (2),
*           ... },
*       responses     SEQUENCE OF SEQUENCE {
*           responseOp     CHOICE {
*               modifyResponse     ModifyResponse,
*               addResponse        AddResponse,
*               delResponse        DelResponse,
*               modDNResponse      ModifyDNResponse,
*               extendedResp       ExtendedResponse,
*               ... },
*           controls       [0] Controls OPTIONAL,
*           ... },
*       ... }
 * </PRE>
*
* @see MultiUpdateChangesApplied
* @see MultiUpdateExtendedRequest
*/
```

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/**
* This class defines a set of properties that may be used when creating a
* {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an
* operation processed by the server.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
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 or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/OperationAccessLogMessage.java
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/**
* This class provides a data structure that provides information about the
* result codes associated with a particular type of operation (or across all
* types of operations, if the associated operation type is {@code null}).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/OperationResultCodeInfo.java
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*/
/**
* This class defines a failed dependency action, which controls how a task
* should behave if any of its dependencies fails.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/FailedDependencyAction.java
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*/
/**
* This class provides a request control which may be used to request the server
* ID of the server that actually processed the associated request.  It may be
* used for requests sent directly to a Directory Server, but it is more useful
* when the request will pass through a Directory Proxy Server instance because
* the corresponding {@link GetServerIDResponseControl} will provide the server
* ID of the backend server used to process the request.  This server ID may be
* used in a {@link RouteToServerRequestControl}
 instance to request that
* subsequent operations be processed by the same server.  See the documentation
* for the {@code RouteToServerRequestControl} for an example that demonstrates
* this.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control does not have a value.  The criticality may be either
* {@code true} or {@code false}.
```

*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetServerIDRequestControl.java
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/**
* This class defines a monitor entry that provides information about the
* processing times of operations that are performed in the server. It includes
* the total counts of each type of operation, the average response time for
* each type of operation, and counts and percentages of operations whose

```
* server-side processing time fits in defined buckets.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are
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*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The following buckets are defined in the default configuration:
* <UL>
*   <LI>Less than 1ms.</LI>
*   <LI>Greater than or equal to 1ms and less than 2ms.</LI>
*   <LI>Greater than or equal to 2ms and less than 3ms.</LI>
*   <LI>Greater than or equal to 3ms and less than 5ms.</LI>
*   <LI>Greater than or equal to 5ms and less than 10ms.</LI>
*   <LI>Greater than or equal to 10ms and less than 20ms.</LI>
*   <LI>Greater than or equal to 20ms and less than 30ms.</LI>
*   <LI>Greater than or equal to 30ms and less than 50ms.</LI>
*   <LI>Greater than or equal to 50ms and less than 100ms.</LI>
*   <LI>Greater
 than or equal to 100ms and less than 1000ms.</LI>
*   <LI>Greater than or equal to 1000ms.</LI>
* </UL>
* It provides the following information for each operation, as well as for the
* total for all operations:
* <UL>
*   <LI>The number of operations of the specified type within each bucket.</LI>
*   <LI>The percentage of operations of the specified type within each
*       bucket.</LI>
*   <LI>The aggregate percentage of operations of the specified type for each
*       bucket (i.e., the percentage of operations in that bucket or any
*       bucket for a lower duration).</LI>
* </UL>
* The server should present at most one processing time histogram monitor
* entry.  It can be retrieved using the
* {@link MonitorManager#getProcessingTimeHistogramMonitorEntry} method.
* This entry provides specific methods for accessing information about
* processing times per bucket (e.g., the
* {@link ProcessingTimeHistogramMonitorEntry#getAllOpsPercent} method can be
* used
 to retrieve a map containing the percent of operations within each
* bucket).  Alternately, this information may be accessed using the generic
* API.  See the {@link MonitorManager} class documentation for an example that
```

* demonstrates the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ProcessingTimeHistogramMonitorEntry.java
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/**
* This class provides an implementation of an extended result that may be used
* to provide information about the result of processing for a deliver one-time
* password extended request. If the one-time password was delivered

```
* successfully, then this result will include information about the mechanism
* through which that message was delivered.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the request was processed successfully, then the extended result will have
* an OID of 1.3.6.1.4.1.30221.2.6.25 and a value with the following encoding:
* <BR><BR>
* <PRE>
*   DeliverOTPResult ::= SEQUENCE {
*       deliveryMechanism     [0] OCTET STRING,
*       recipientDN           [1] LDAPDN,
*       recipientID           [2] OCTET STRING OPTIONAL,
*       message               [3] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*
* @see  com.unboundid.ldap.sdk.unboundidds.UnboundIDDeliveredOTPBindRequest
* @see  DeliverOneTimePasswordExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverOneTimePasswordExtendedResult.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a form of
* security negotiation performed on a client connection.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*
  for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/SecurityNegotiationAccessLogMessage.java
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/**
* This class provides support for an UnboundID-proprietary SASL mechanism that
* allows for multifactor authentication using a one-time password that has been
* delivered to the user via some out-of-band mechanism as triggered by the
* {@link DeliverOneTimePasswordExtendedRequest} (which requires the user to
* provide an authentication ID and a static password).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure,
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
```

```
* </BLOCKQUOTE>
* <BR>
* The name for this SASL mechanism is "UNBOUNDID-DELIVERED-OTP".  An
* UNBOUNDID-DELIVERED-OTP SASL bind request MUST include SASL credentials with
* the following ASN.1 encoding:
* <BR><BR>
* <PRE>
*   UnboundIDDeliveredOTPCredentials ::= SEQUENCE {
*        authenticationID     [0] OCTET STRING,
*        authorizationID      [1] OCTET STRING OPTIONAL.
*        oneTimePassword      [2] OCTET STRING,
*        ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDDeliveredOTPBindRequest.java
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/**
* This class provides an implementation of an extended request that may be used
* to register a YubiKey OTP device with the Directory Server so that it may be
* used to authenticate using the UNBOUNDID-YUBIKEY-OTP SASL mechanism.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.54, and it must
* include a request value with the following encoding:
* <BR><BR>
* <PRE>
*   RegisterYubiKeyOTPDeviceRequest ::= SEQUENCE {
*        authenticationID     [0] OCTET STRING OPTIONAL,
*        staticPassword       [1] OCTET STRING OPTIONAL,
*        yubiKeyOTP           [2] OCTET STRING,
*        ... }
* </PRE>
*
*
* @see  DeregisterYubiKeyOTPDeviceExtendedRequest
* @see  com.unboundid.ldap.sdk.unboundidds.UnboundIDYubiKeyOTPBindRequest
* @see  com.unboundid.ldap.sdk.unboundidds.RegisterYubiKeyOTPDevice
*/

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/**
* This class provides an implementation of an extended request that may be used
* to set the accessibility of one or more subtrees in the Ping Identity,
* UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server.  It may be used to
* indicate that a specified set of entries and all their subordinates should be
* invisible or read-only, or to restore it to full accessibility.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
```

```
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this request is 1.3.6.1.4.1.30221.2.6.19, and the
* value must have the encoding specified below.  Note that the initial
* specification for this extended request only allowed for the specification of
* a single subtree, whereas it is now possible to affect the accessibility of
* multiple subtrees in a single request.  In order to preserve compatibility
* with the original encoding, if there is more than one target subtree, then
* the first subtree must be specified as the first element in the value
* sequence and the remaining subtrees must be specified in the
* additionalSubtreeBaseDNs
 element.
* <BR><BR>
* <PRE>
*   SetSubtreeAccessibilityRequestValue ::= SEQUENCE {
*       subtreeBaseDN               LDAPDN,
*       subtreeAccessibility        ENUMERATED {
*           accessible              (0),
*           read-only-bind-allowed    (1),
*           read-only-bind-denied     (2),
*           hidden                  (3),
*           ... },
*       bypassUserDN                [0] LDAPDN OPTIONAL,
*       additionalSubtreeBaseDNs    [1] SEQUENCE OF LDAPDN OPTIONAL,
*       ... }
* </PRE>
*/
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a search
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These
 classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchForwardFailedAccessLogMessage.java
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*/
/**
* This class provides an implementation of a control which may be used to
* process an add, delete, modify, or modify DN operation in the Directory
* Server which will not be replicated to other servers.  This control is
* primarily intended for use in manually resolving replication conflicts.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
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```
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.30221.1.5.2 and a criticality
* of true.  It does not have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the replication repair request
* control:
* <PRE>
* ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",
*      new Modification(ModificationType.REPLACE, "attrName", "attrValue"));
* modifyRequest.addControl(new ReplicationRepairRequestControl());
* LDAPResult modifyResult = connection.modify(modifyRequest);
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/ReplicationRepairRequestControl.java

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/**
* This class provides an implementation of the UNBOUNDID-TOTP SASL bind request
* that contains a point-in-time version of the one-time password and can be
* used for a single bind but is not suitable for repeated use. This version of
* the bind request should be used for authentication in which the one-time
* password is provided by an external source rather than being generated by
* the LDAP SDK.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
 package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* Because the one-time password is provided rather than generated, this version
* of the bind request is not suitable for cases in which the authentication
* process may need to be repeated (e.g., for use in a connection pool,
* following referrals, or if the auto-reconnect feature is enabled), then the
* reusable variant (supported by the {@link ReusableTOTPBindRequest} class)
* which generates the one-time password should be used instead.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/SingleUseTOTPBindRequest.java
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/**
* This package contains implementations for a number of LDAP extended
* operations which are specific to the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server products.  In some cases, they
* may be based on standard extended operations which have not yet reached a
* sufficient stability level to make them available for general use against any
* kind of server, while in other cases they may be defined specifically for use
* with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
 8661 Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/package-info.java
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*/
/**
* This class provides support for reading and decoding the value of the
* {@code ds-pwp-state-json} virtual attribute, which holds information about a
* user's password policy state.

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
*
* @see ModifiablePasswordPolicyStateJSON
* @see PasswordPolicyStateExtendedRequest
* @see PasswordPolicyStateJSONField
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/PasswordPolicyStateJSON.java
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/**
* This class provides an implementation of the stream proxy values intermediate
* response, which may be used to provide a partial or complete list of the
* values for a specified attribute, or DNs of entries contained in a specified
* portion of the server DIT.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This intermediate response has an OID of "1.3.6.1.4.1.30221.2.6.9" and the
* value is encoded as follows:
* <PRE>
*   StreamProxyValuesIntermediateResponse ::= SEQUENCE {
*       attributeName        [0] LDAPString OPTIONAL,
*       result               [1] ENUMERATED {
*            allValuesReturned       (0),
*            moreValuesToReturn      (1),
*            attributeNotIndexed     (2),
*            processingError         (3),
*            ... },
*       diagnosticMessage    [2] OCTET STRING OPTIONAL,
*       values               [4] SET OF BackendSetValue OPTIONAL,
*       ... }
*
*   BackendSetValue ::= SEQUENCE {
*       backendSetID     OCTET STRING,
*       value
          OCTET STRING }
* </PRE>
```

*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamProxyValuesIntermediateResponse.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class defines a Directory Server task that can be used to invoke the
* collect-support-data tool to capture a variety of information that may help
* monitor the state of the server or diagnose potential problems.
*

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The path (on the server filesystem) to which the support data archive
*       should be written.  If this is not provided, then the server will
*       determine an appropriate output file to use.  If this is provided and
*       refers to a file that exists, that file will be overwritten.  If this
*       is provided and refers to a directory that exists, then a file will
*       be created in that directory with a server-generated name.  If this
*       is provided and refers to a file that does not exist, then its parent
*       directory must exist, and a new file will be created with the specified
*       path.</LI>
*   <LI>The path (on the server
 filesystem) to a file containing the passphrase
*       to use to encrypt the contents of the support data archive.  If this is
*       not provided, then the support data archive will not be encrypted.</LI>
*   <LI>A flag that indicates whether to include data that may be expensive to
*       capture in the support data archive.  This information will not be
*       included by default.</LI>
*   <LI>A flag that indicates whether to include a replication state dump
*       (which may be several megabytes in size) in the support data
*       archive.  This information will not be included by default.</LI>
*   <LI>A flag that indicates whether to include binary files in the support
*       data archive.  Binary files will not be included by default.</LI>
*   <LI>A flag that indicates whether to include source code (if available) to
*       any third-party extensions installed in the server.  Extension source
*       code will not be included by default.</LI>
*   <LI>The
 data security level to use when redacting data to include in the
*       support data archive.  If this is not specified, the server will
*       select an appropriate security level.</LI>
*   <LI>A flag that indicates whether to capture items in sequential mode
*       (which will use less memory, but at the expense of taking longer to
*       complete) rather than in parallel.  Support data will be captured in
*       parallel by default.</LI>
*   <LI>The number and duration between intervals for use when collecting
*       output of tools (like vmstat, iostat, mpstat, etc.) that use
*       sampling over time.  If this is not provided, the server will use a
```

```
*       default count and interval.</LI>
*   <LI>The number of times to invoke the jstack utility to obtain a stack
*       trace of threads running in the JVM.  If this is not provided, the
*       server will use a default count.</LI>
*   <LI>The duration (the length of time before the time the task is invoked)
 *       for log messages to be included in the support data archive.  If this
*       is not provided, the server will automatically select the amount of
*       log content to include.</LI>
*   <LI>The amount of data in kilobytes to capture from the beginning or end of
*       each log file.  If this is not provided, the server will automatically
*       select the amount of log content to include.</LI>
*   <LI>An optional comment to include in the support data archive.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This class provides an {@link LDAPCompare} output handler that will format
* messages as JSON objects.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/TransactionSpecificationRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ScopeArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/ProxySearchResultListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/JSONAccessLogRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ContentSyncStateControl.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/MinimalLogFormatter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ExampleCommandLineArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ContentSyncRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/CannedResponseRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/LDAPListenerExceptionHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/EndTransactionExtendedRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/LDAPListenerRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/SearchRateAsyncListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/StartTransactionExtendedRequest.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/LDAPListenerConfig.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/SearchEntryTransformer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/ProxyRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ContentSyncState.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/FixedArrayOutputStream.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/SearchReferenceTransformer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/DurationArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/EndTransactionExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/IntermediateResponseTransformer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/QuotingRequirements.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/LDAPDebuggerRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/examples/LDAPDebuggerShutdownListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/BooleanValueArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/extensions/AbortedTransactionExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/AccessLogRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/StartTransactionExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/LDAPDebugger.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Launcher.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DNEntrySource.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/LDAPListenerClientConnection.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ContentSyncRequestMode.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ContentSyncDoneControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/SearchAndModRateThread.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/RandomCharactersValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/PruneUnneededConnectionsLDAPConnectionPoolHealthCheck.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/RetainConnectExceptionReferralConnector.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/CloseableLock.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/StreamFileValuePatternComponent.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/TimestampValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/UUIDValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/CloseableReadWriteLock.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/RDNNameValuePair.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/StreamFileValuePatternReaderThread.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/RateLimitedInputStream.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/RateLimitedOutputStream.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/PassphraseEncryptedOutputStream.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/PassphraseEncryptedInputStream.java
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*/
/**
* This class defines a monitor entry that provides information about the state
* of a replica, including the base DN, replica ID, and generation ID, as well
* as information about its communication with the replication server
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server should present a replica monitor entry for each replicated base
* DN.  They can be retrieved using the
* {@link MonitorManager#getReplicaMonitorEntries} method.  These entries
* provide specific methods for accessing information about the replica.
* Alternately, this information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicaMonitorEntry.java

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a search
* result reference returned to a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

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*   for proprietary
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* </BLOCKQUOTE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchReferenceAccessLogMessage.java
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```

```
/**
* This class defines an extended request that may be used to request that a
* Ping Identity Directory Server instance (or related Ping Identity server
* product) replace its inter-server certificate.  The new certificate data may
* be contained in a key store file on the server filesystem or included in the
* extended request itself.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.69 and a value with
* the following encoding:
* <PRE>
*   ReplaceInterServerCertificateValue ::= SEQUENCE {
*     keyStoreContent          CHOICE {
*       keyStoreFile             [0] KeyStoreFileSequence,
*       keyStoreData             [1] KeyStoreDataSequence,
*       certificateData          [2] CertificateDataSequence,
*       ... },
*     skipCertificateValidation  [16] BOOLEAN DEFAULT FALSE,
*     ... }
*
*   KeyStoreFileSequence ::= SEQUENCE {
*     path                  [8]  OCTET STRING,
*     keyStorePIN           [9]  OCTET STRING,
*     privateKeyPIN
        [10] OCTET STRING OPTIONAL,
*     keyStoreType          [11] OCTET STRING OPTIONAL,
*     sourceCertificateAlias  [12] OCTET STRING OPTIONAL,
*     ... }
*
*   KeyStoreDataSequence ::= SEQUENCE {
*     keyStoreData          [13] OCTET STRING,
*     keyStorePIN           [9]  OCTET STRING,
*     privateKeyPIN          [10]  OCTET STRING OPTIONAL,
*     keyStoreType          [11] OCTET STRING OPTIONAL,
*     sourceCertificateAlias  [12] OCTET STRING OPTIONAL,
*     ... }
*
*   CertificateDataSequence ::= SEQUENCE {
```

```
*     certificateChain  [14] SEQUENCE SIZE (1..MAX) OF OCTET STRING,
*     privateKey        [15] OCTET STRING OPTIONAL,
*     ... }
* </PRE>
* <BR><BR>
*
* @see  ReplaceInterServerCertificateExtendedResult
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceInterServerCertificateExtendedRequest.java
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```

```
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*/
/**
* This class provides an {@link LDAPResultWriter} instance that formats results
* in JSON.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

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jar/com/unboundid/ldap/sdk/unboundidds/tools/JSONLDAPResultWriter.java
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*/
/**
* This class provides an implementation of an intermediate response which
* indicates that the Directory Server may have already purged information about
* one or more changes.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The missing changelog entries intermediate response value may be present, and
* if it is then it will have the following encoding:
* <PRE>
*   MissingEntriesIntermediateResponse ::= SEQUENCE {
*   message   [0] OCTET STRING OPTIONAL,
*   ... }
* </PRE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/MissingChangelogEntriesIntermediateResponse.java
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyForwardAccessLogMessage.java
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/**
* This class defines a monitor entry that provides information about the recent
* CPU and memory utilization of the underlying system.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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/**

```
* This class defines a set of properties that may be used when creating a
* {@link RemoveAttributeTypeTask}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides an implementation of a request control that may be
* included in a search request to indicate that the server should reject the
* request if the server cannot use its defined indexes to identify matching
* entries efficiently.  This can prevent a requester with the unindexed search
* privilege from inadvertently submitting an expensive search request that
* could require a long time to complete and potentially consume significant
* server resources.  This request control has an OID
 of
* "1.3.6.1.4.1.30221.2.5.54", may have a criticality of either true or false,
* and does not take a value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see  PermitUnindexedSearchRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/RejectUnindexedSearchRequestControl.java
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*/
/**
* This class defines a data structure that holds information about a password
* generated by the server and returned to the client in a
* {@link GeneratePasswordExtendedResult}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/GeneratedPassword.java
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*/
/**
* This class provides an implementation of a processor that can be used to
* attempt to retrieve an entry from the source and target servers and identify
* differences between them.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external
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specifications that are not
* considered stable or mature enough to be guaranteed to work in an
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDiffProcessor.java
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*/
/**
* This class defines a data structure with information about a subtree with

```
* restricted access, as may be included in a
* {@link GetSubtreeAccessibilityExtendedResult}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/SubtreeAccessibilityRestriction.java

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*/
/**
* This class provides a request control which may be used to request that the
* Directory Proxy Server forward the associated operation to a specific backend
* set associated with an entry-balancing request processor.  It may be either
* an absolute routing request, indicating that the target backend set(s) are
* the only ones that may be used to process the operation, or it may be used to
* provide a routing hint in lieu of accessing the global index.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class,
 and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control may be used for a number of different kinds of requests, as
* follows:
* <UL>
*   <LI>For an add request that uses absolute routing, exactly one target
*       backend set ID must be specified, and the request will be sent only to
*       that backend set.
*       <BR>
*       <B>WARNING</B>:  The use of absolute routing for an add
*       operation bypasses the check to ensure that no entry already exists
*       with the same DN as the new entry, so it is possible that an add
*       performed
 immediately below the balancing point could result in
*       creating an entry in one backend set with the same DN as another entry
*       in a different backend set.  Similarly, if the entry-balancing request
*       processor is configured to broadcast add operations outside the
*       balancing point rather than relying on those adds to be replicated,
*       then it is strongly recommended that absolute routing not be used for
*       add operations outside the balancing point because that will cause the
*       entry to be added to only one backend set rather than to all backend
*       sets.</LI>
*   <LI>For an add request that uses a routing hint, exactly one target backend
```

```
*       set ID must be specified for the first guess, although any number of
*       fallback set IDs may be specified.  For entries immediately below the
*       balancing point, the routing hint will be used instead of a placement
*       algorithm in order to select which backend set
 should hold the entry
*       (and the fallback sets will not be used).  For entries more than one
*       level below the balancing point, the routing hint will be used in lieu
*       of the global index as an attempt to determine where the parent entry
*       exists, and the fallback sets may be used if the parent entry doesn't
*       exist in the first guess set.  For entries outside the balancing point,
*       if the entry-balancing request processor is configured to add entries
*       to one set and allow them to be replicated to other sets, then the
*       first guess hint will be used to select the set to which the entry will
*       be added (and the fallback sets will not be used).  An add operation
*       with a routing hint cannot be used to create multiple entries with the
*       same DN in different backend sets, nor can it cause an entry outside
*       the balancing point to exist in only one backend set.</LI>
*    <LI>For a simple bind request that
 uses absolute routing, exactly one
*       target backend set ID must be specified, and the request will be sent
*       only to that backend set.  If the bind fails in that set, even if the
*       failure is because the target entry does not exist in that backend set,
*       then the failure will be returned to the client rather than attempting
*       the operation in a different backend set.</LI>
*    <LI>For a simple bind request that uses a routing hint, exactly one target
*       backend set ID must be specified for the first guess, although any
*       number of fallback set IDs may be specified.  If the bind fails in the
*       first guess set, it may be re-attempted in the fallback sets.</LI>
*    <LI>For a compare request that uses absolute routing, exactly one target
*       backend set ID must be specified, and the request will be sent only to
*       that backend set.  If the compare fails in that set, even if the
*       failure is because the target entry does
 not exist in that set, then
*       the failure will be returned to the client rather than attempting the
*       operation in a different backend set.</LI>
*    <LI>For a compare request that uses a routing hint, exactly one target
*       backend set ID must be specified for the first guess, although any
*       number of fallback set IDs may be specified.  If the compare operation
*       fails in the first guess set in a way that suggests the target entry
*       does not exist in that backend set, then it will be re-attempted in the
*       fallback sets.</LI>
*    <LI>For a delete request that uses absolute routing, exactly one target
*       backend set ID must be specified, and the request will be sent only to
*       that backend set.  If the delete fails in that set, even if the failure
*       is because the target entry does not exist in that set, then the
*       failure will be returned to the client rather than attempting the
*       operation in a different
```

backend set.
*
*   <B>WARNING</B>: If the entry-balancing request processor is configured
*   to broadcast delete operations outside the balancing point rather than
*   relying on those deletes to be replicated, then it is strongly
*   recommended that absolute routing not be used for delete operations
*   outside the balancing point because that will cause the entry to be
*   deleted in only one backend set and will remain in all other backend
*   sets.</LI>
*   <LI>For a delete request that uses a routing hint, exactly one target
*   backend set ID must be specified for the first guess, although any
*   number of fallback set IDs may be specified. For entries below the
*   balancing point, the routing hint will be used in lieu of the global
*   index in order to determine which backend set contains the target
*   entry. If the delete fails in the first guess set in a way that
*   suggests that the target
entry does not exist in that backend set, then
*   it will be re-attempted in the fallback sets.
*
*   For entries outside the balancing point, if the entry-balancing request
*   processor is configured to delete entries from only one backend set
*   and allow that delete to be replicated to all other sets, then the
*   routing hint may be used to select the set from which that entry will
*   be deleted. A delete operation with a routing hint cannot be used to
*   cause an entry outside the balancing point to be removed from only one
*   backend set while leaving it in the remaining sets.</LI>
*   <LI>For an atomic multi-update extended request, only absolute routing is
*   supported, and the route to backend set request control must be
*   attached to the extended operation itself and not to any of the
*   requests contained inside the multi-update. Exactly one backend set ID
*   must be specified, and the
multi-update request will be sent only to
*   that backend set.</LI>
*   <LI>For a non-atomic multi-update extended request, the extended operation
*   must not include a route to backend set request control. However, any
*   or all of the requests inside the multi-update request may include a
*   route to backend set request control, and in that case it will be
*   treated in the same way as for a request of the same type not
*   included in multi-update request (e.g., if a multi-update extended
*   operation includes an add request with a route to backend set request
*   control, then that route control will have the same effect as for the
*   same add request with the same control processed outside a multi-update
*   operation).</LI>
*   <LI>For an extended request that will be processed by a proxied extended
*   operation handler, the request may include a route to backend set
*   request control and that control will
be used to select the target
*   backend sets instead of the proxied extended operation handler's

```
*      {@code selectBackendSets} method.</LI>
*   <LI>For a modify request that uses absolute routing, exactly one target
*      backend set ID must be specified, and the request will be sent only to
*      that backend set.  If the modify fails in that set, even if the failure
*      is because the target entry does not exist in that set, then the
*      failure will be returned to the client rather than attempting the
*      operation in a different backend set.
*      <BR>
*      <B>WARNING</B>:  When processing a modify operation against the
*      balancing point entry itself, the Directory Proxy Server will typically
*      send that modify request to all backend sets to ensure that it is
*      properly applied everywhere.  However, with an absolute routing
*      request, the modify operation will be sent only to one backend set,
*      which will cause
 the entry in that set to be out of sync with the entry
*      in all other sets.  It is therefore strongly recommended that absolute
*      routing not be used for modify operations that target the balancing
*      point entry.  Similarly, if the entry-balancing request processor is
*      configured to broadcast modify operations targeting entries outside the
*      balancing point to all backend sets rather than having those modify
*      operations replicated to the other backend sets, it is strongly
*      recommended that absolute routing not be used for those operations
*      because the request will be sent to only one set, causing the entry in
*      that set to be out of sync with the corresponding entry in other
*      backend sets.</LI>
*   <LI>For a modify request that uses a routing hint, exactly one target
*      backend set ID must be specified for the first guess, although any
*      number of fallback set IDs may be specified.  For entries
 below the
*      balancing point, the routing hint will be used in lieu of the global
*      index in order to determine which backend set contains the target
*      entry.  If the modify attempt fails in the first guess set in a way
*      that suggests the target entry does not exist in that backend set, then
*      it will be re-attempted in the fallback sets.
*      <BR>
*      For modify operations that target the balancing point entry itself, the
*      entry-balancing request processor will send the request to all backend
*      sets, and the routing hint will not be used.  Similarly, for entries
*      outside the balancing point, if the entry-balancing request processor
*      is configured to modify entries in only one backend set and allow that
*      modify operation to be replicated to all other sets, then the routing
*      hint may be used to select the set in which that entry will be
*      modified.  A modify operation with a routing hint cannot
 be used to
*      cause an entry at or outside the balancing point to be updated in only
*      one backend set, leaving it out of sync with the corresponding entry in
*      the remaining sets.</LI>
*   <LI>For a modify DN request that uses absolute routing, exactly one target
```

```
*       backend set ID must be specified, and the request wil be sent only to
*       that backend set.  If the modify DN operation fails in that set, even
*       if the failure is because the target entry does not exist in that set,
*       then the failure will be returned to the client rather than attempting
*       the operation in a different backend set.
*       <BR>
*       <B>WARNING</B>:  Processing a modify DN operation with absolute routing
*       bypasses the check to ensure that the new DN for the target entry does
*       not conflict with the DN for an entry that exists in any other backend
*       set.  As a result, you are strongly discouraged from using absolute
*
  routing for any modify DN operation that would cause the new DN for the
*       entry to be exactly one level below the balancing point.  Further, for
*       entries that exist outside the balancing point, if the entry-balancing
*       request processor is configured to broadcast modify DN operations
*       rather than expecting them to be replicated to the other backend sets,
*       a modify DN operation with absolute routing would cause the change to
*       be applied only in one backend set, leaving it out of sync with the
*       other sets.</LI>
*    <LI>For a modify DN request that uses a routing hint, exactly one target
*       backend set ID must be specified for the first guess, although any
*       number of fallback set IDs may be specified.  For entries below the
*       balancing point, the routing hint will be used in lieu of the global
*       index in order to determine which backend set contains the target
*       entry.  If the modify attempt fails
 in the first guess set in a way
*       that suggests the target entry does not exist in that backend set, then
*       it will be re-attempted in the fallback sets.
*       <BR>
*       For entries outside the balancing point, if the entry-balancing request
*       processor is configured to process modify DN operations in one backend
*       set and allow them to be replicated to other backend sets, then the
*       routing hint will be used to select which backend set should receive
*       the modify DN request.  A modify DN operation with a routing hint
*       cannot be used to create a conflict in which the same DN exists in
*       multiple backend sets, or a case in which a modify DN operation outside
*       the balancing point leaves one backend set out of sync with the other
*       sets.</LI>
*    <LI>For a search request that uses absolute routing, there may be multiple
*       target backend set IDs only if the scope of the search may include
*       data from
 multiple backend sets (i.e., the base DN is at or above the
*       balancing point, and the scope include entries at least one level below
*       the balancing point entry).  If the base and scope of the search allow
*       it to match only entries at or above the balancing point or only
*       entries within one backend set, then the absolute routing request must
*       target exactly one backend set.</LI>
*    <LI>For a search request that uses a routing hint, exactly one target
```

```
*       backend set ID must be specified for the first guess, although any
*       number of fallback set IDs may be specified.  The routing hint will
*       only be used for cases in which the entire scope of the search is
*       contained entirely within a backend set (i.e., the entire scope is
*       at or above the balancing point, or the entire scope is at least one
*       level below the balancing point).</LI>
* </UL>
* <BR><BR>
* The OID for a route to backend set request control
 is
* "1.3.6.1.4.1.30221.2.5.35", and the criticality may be either {@code true} or
* {@code false}.  It must have a value with the following encoding:
* <PRE>
*   RouteToBackendSetRequest ::= SEQUENCE {
*       entryBalancingRequestProcessorID     OCTET STRING,
*       backendSets                          CHOICE {
*           absoluteRoutingRequest     [0] SET OF OCTET STRING,
*           routingHint                [1] SEQUENCE {
*               firstGuessSetIDs     SET OF OCTET STRING,
*               fallbackSetIDs       SET OF OCTET STRING OPTIONAL }
*           ... }
*       ... }
* </PRE>
* The use of the route to backend set request control will also cause the
* server to behave as if the get backend set ID request control had been
* included, so that the get backend set ID response control may be included in
* operation result and search result entry messages as appropriate.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/RouteToBackendSetRequestControl.java
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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at the end of the changelog.
* The first change of the batch will be the next change processed on any of the
* servers in the replication topology.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent
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* </BLOCKQUOTE>
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndOfChangelogStartingPoint.java
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*/
/**
* This class provides a collect support data log capture window implementation
* that indicates that the tool should use its default logic when determining
* which log content to include in the support data archive when processing a
* {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
```

```
* </BLOCKQUOTE>
*
* @see  CollectSupportDataExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ToolDefaultCollectSupportDataLogCaptureWindow.java
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*/
/**
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  The use of interactive transactions is strongly discouraged
*   because it can create conditions which are prone to deadlocks between
*   operations that may significantly affect performance and will result in the
*   cancellation of one or both operations.  It is strongly recommended that
*   standard LDAP transactions (which may be started using a
*   {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
*   or a {@code MultiUpdateExtendedRequest}
 be used instead.  Although they
*   cannot include arbitrary read operations, LDAP transactions and
*   multi-update operations may be used in conjunction with the
*   {@link com.unboundid.ldap.sdk.controls.AssertionRequestControl},
*   {@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}, and
*   {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl} to
*   incorporate some read capability into a transaction, and in conjunction
*   with the {@link com.unboundid.ldap.sdk.ModificationType#INCREMENT}
*   modification type to increment integer values without the need to know the
*   precise value before or after the operation (although the pre-read and/or
*   post-read controls may be used to determine that).
* </BLOCKQUOTE>
* This class defines an interactive transaction specification response control,
* which will be included in the server's response to an operation that included
* the {@link InteractiveTransactionSpecificationRequestControl}.
* <BR>
*
 <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* It provides information about the state of the transaction, which may
* include:
* <UL>
*   <LI><CODE>transactionValid</CODE> -- Indicates whether the transaction is
*       still valid in the server.  This should be checked if the associated
*       operation did not complete successfully.</LI>
*   <LI><CODE>baseDNs</CODE> -- This may specify the set of base DNs below
*       which the client is allowed to request operations as part of this
*       transaction.
 It may be absent if there are no restrictions on which
*       base DNs may be used, or if it has not changed since the last
*       response within this transaction.</LI>
* </UL>
* See the documentation in the
```

* {@code StartInteractiveTransactionExtendedRequest} class for an example of
* processing interactive transactions.
*
* @deprecated The use of interactive transactions is strongly discouraged
*   because it can create conditions which are prone to deadlocks
*   between operations that may significantly affect performance and
*   will result in the cancellation of one or both operations.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/InteractiveTransactionSpecificationResponseControl.java
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*/
/**
* This class provides a data structure for holding information read from a
* value of the ds-changelog-attr-exceeded-max-values-count attribute.  Values
* should be in the form "attr=X,beforeCount=Y,afterCount=Z", where "X" is the
* name of the attribute which had too many values before and/or after the
* change, "Y" is the number of values the attribute had before the change, and
* "Z" is the number of values the attribute had after the change.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/ChangeLogEntryAttributeExceededMaxValuesCount.java
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*/
/**
* This class provides a response control that may be included in the response
* to a successful bind operation in order to provide information about custom
* resource limits for the user, including size limit, time limit, idle time
* limit, lookthrough limit, equivalent authorization user DN, and client
* connection policy name.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control should be {@code false}.  It must have a
* value with the following encoding:
* <PRE>
*   USER_RESOURCE_LIMITS_VALUE ::= SEQUENCE {
*     sizeLimit                   [0] INTEGER OPTIONAL,
*     timeLimitSeconds            [1] INTEGER OPTIONAL,
*     idleTimeLimitSeconds        [2] INTEGER OPTIONAL,
*     lookthroughLimit            [3] INTEGER OPTIONAL,
*     equivalentAuthzUserDN       [4] LDAPDN OPTIONAL,
*     clientConnectionPolicyName  [5] OCTET STRING OPTIONAL,
*     groupDNs                    [6] SET OF OCTET STRING OPTIONAL,
*     privilegeNames              [7]
 SET OF OCTET STRING OPTIONAL,
*     otherAttributes             [8] PartialAttributeList OPTIONAL,
*     ... }
```

* </PRE>
*
* @see GetUserResourceLimitsRequestControl
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetUserResourceLimitsResponseControl.java
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*/
/**
* This interface defines an API that may be implemented by classes which wish

* to be notified of processing performed in the course of moving a subtree
* between servers.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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/**
* This class provides a mechanism for ensuring that manage-account arguments
* used to identify which entries to process by filter or user ID are handled
* properly.  It will perform searches to identify matching entries, and those
* entries will be provided to a {@link ManageAccountProcessor} to ensure that
* the appropriate password policy state operation is invoked for them.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*/
/**
* This class provides an implementation of an intermediate response which
* provides information about a changelog entry returned from a Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The changelog entry intermediate response value is encoded as follows:
* <PRE>
*   ChangelogEntryIntermediateResponse ::= SEQUENCE {
*        resumeToken                OCTET STRING,
*        serverID                   OCTET STRING,
*        changelogEntryDN           LDAPDN,
*        changelogEntryAttributes     PartialAttributeList,
*        ... }
* </PRE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-

jar/com/unboundid/ldap/sdk/unboundidds/extensions/ChangelogEntryIntermediateResponse.java
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/**
* This class defines a Directory Server task that can be used to restore a
* backup.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed
 to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The path to the backup directory in which the backup resides.  This
*       must be provided when scheduling a new task of this type.</LI>
*   <LI>The backup ID of the backup to be restored.  If this is not provided
*       when scheduling an instance of this task, then the most recent backup
*       in the backup directory will be selected.</LI>
*   <LI>A flag that indicates whether to attempt to restore the backup or
*       only to verify it to determine whether it appears to be valid (e.g.,
*       validate the digest and/or signature, make sure that the backend
*       considers it valid, etc.).</LI>
*   <LI>The path to a file containing a passphrase to use to generate the
*       encryption key.</LI>
* </UL>

*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/ConnectionPoolOptions.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONField.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONObject.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/AttributeNameArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/ConnectionOptions.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/RegularExpressionArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/CommandLineToolInteractiveModeProcessor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AggregatePostConnectProcessor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ToCodeArgHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONNumber.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/LDAPURLArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/ServerDetails.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONBoolean.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONValue.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/AggregateLDAPConnectionPoolHealthCheck.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/util/args/RequireDNInSubtreeArgumentValueValidator.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/util/ssl/SetEnabledProtocolsAndCipherSuitesSSLSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ControlArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPBindException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFWriterChangeRecordTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONNull.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/SecurityOptions.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ToCodeHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONArray.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/PasswordExpirationLDAPConnectionPoolHealthCheck.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/URLArgumentValueValidator.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ProhibitDNInSubtreeArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/AuthenticationDetails.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/SetEnabledProtocolsAndCipherSuitesSocket.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFReaderChangeRecordTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/ToCodeRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPExtendedOperationException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONString.java
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*/
/**
* This class defines a Directory Server task that can be used to cause entries
* contained in a local DB backend to be re-encoded, which may be used to
* apply any configuration changes that affect the encoding of that entry (e.g.,
* if the entry should be encrypted, hashed, compressed, or fully or partially
* uncached; or if these settings should be reverted).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure,
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The backend ID of the backend in which entries should be re-encoded.
*       This must be provided.</LI>
*   <LI>The base DN of a branch of entries to include in the re-encode
*       processing.</LI>
*   <LI>The base DN of a branch of entries to exclude from the re-encode
*       processing.</LI>
*   <LI>A filter to use to identify entries to include in the re-encode
*       processing.</LI>
*   <LI>A filter to use to identify entries to exclude from the re-encode
*       processing.</LI>
*   <LI>The maximum
 rate at which to re-encode entries, in number of entries
*       per second.</LI>
*   <LI>An indication as to whether to skip entries that are fully
*       uncached.</LI>
*   <LI>An indication as to whether to skip entries that are partially
*       uncached.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ReEncodeEntriesTask.java
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*/
/**
* This enum defines a set of warning types that may be included in the password
* policy response control as defined in draft-behera-ldap-password-policy.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
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*/

Found in path(s):
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/**
* This package provides classes that may be used to parse access and error log
* files generated by the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent

* 8661 server products.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/package-info.java
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*/
/**
* This class provides information about a property that may be used to schedule
* a task.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be
 guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Elements of a task property include:
* <UL>
*   <LI>The name of the LDAP attribute used to store values for this
*       property.</LI>
*   <LI>A user-friendly display name for the property.</LI>
*   <LI>A user-friendly description for the property.</LI>
*   <LI>The expected data type for values of the property.</LI>
*   <LI>An optional set of allowed values for the property.  If this is
*       defined, then the property will not be allowed to have any value that
*       is not included in this set.</LI>
*   <LI>A flag that indicates whether the property is required when scheduling
*       the corresponding type of task.</LI>
*   <LI>A flag that indicates whether the property is allowed to have multiple
*       values.</LI>
*   <LI>A flag that indicates whether the property should be considered
*       advanced and therefore may be hidden from users if a simplified
 *       interface is to be presented.</LI>
* </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/TaskProperty.java
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*/
/**
* This class provides a set of properties that can be used in conjunction with
* the {@link MatchingEntryCountRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/MatchingEntryCountRequestControlProperties.java
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*/
/**
* This class provides a utility that may be used to request that the Directory
* Server deliver a single-use password reset token to a user through some
* out-of-band mechanism.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

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/**
* This class provides an implementation of an extended request that may be used
* to revoke one or all of the TOTP shared secrets for a user so that they may
* no longer be used to authenticate.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary
 functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request may be invoked in one of following ways:
* <BR><BR>
* <UL>
*   <LI>
*     With a {@code null} authentication identity and a non-{@code null}
*     TOTP shared secret.  In this case, the authorization identity for the
*     operation (typically the user as whom the underlying connection is
*     authenticated, but possibly a different user if the request also includes
*     a control like the proxied authorization or intermediate client request
*     control that specifies and alternate authorization identity, or if the
*     client authenticated with a SASL mechanism that included an alternate
*     authorization identity) will be used as the authentication identity for
*     this request, and only the specified TOTP shared secret will be removed
 *     from the user's entry while any other shared secrets that may be present
*     in the user's entry will be preserved.  If a static password is provided,
*     then it will be verified, but if none is given then the provided TOTP
*     shared secret will be considered sufficient proof of the user's identity.
*   </LI>
*   <LI>
*     With a {@code null} authentication identity, a non-{@code null} static
*     password, and a {@code null} TOTP shared secret.  In this case, the
*     authorization identity for the operation will be used as the
*     authentication identity for this request, and, if the provided static
*     password is valid, then all TOTP secrets contained in the user's entry
*     will be revoked.
*   </LI>
*   <LI>
*     With a non-{@code null} authentication identity and a non-{@code null}
*     TOTP shared secret.  In this case, only the provided TOTP shared secret
```

```
*     will be removed from the specified user's account while any other shared
*
     secrets will be preserved.  If a static password is provided, then it
*     will be verified, but if none is given then the provided TOTP shared
*     secret will be considered sufficient proof of the user's identity.
*   </LI>
*   <LI>
*     With a non-{@code null} authentication identity a non-{@code null}
*     static password, and a {@code null} TOTP shared secret.  In this case,
*     if the static password is valid for the specified user, then all TOTP
*     shared secrets for that user will be revoked.
*   </LI>
*   <LI>
*     With a non-{@code null} authentication identity a {@code null} static
*     password, and a {@code null} TOTP shared secret.  In this case, the
*     authentication identity from the request must be different from the
*     authorization identity for the operation, and the authorization identity
*     must have the password-reset privilege.  All TOTP shared secrets for
*     the specified user will be revoked.
*   </LI>
* </UL>
* <BR><BR>
 * This extended request has an OID of 1.3.6.1.4.1.30221.2.6.58, and it must
* include a request value with the following encoding:
* <BR><BR>
* <PRE>
*   RevokeTOTPSharedSecretRequest ::= SEQUENCE {
*        authenticationID     [0] OCTET STRING OPTIONAL,
*        staticPassword       [1] OCTET STRING OPTIONAL,
*        totpSharedSecret     [2] OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*
*
* @see  GenerateTOTPSharedSecretExtendedRequest
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/RevokeTOTPSharedSecretExtendedRequest.java
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*/
/**
* This class provides an extended request that may be used to retrieve a list
* of the subscriptions associated with a specified notification manager,
* optionally restricted to a specified set of destinations.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 *   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The request has an OID of 1.3.6.1.4.1.30221.2.6.40 and a value with the
* following encoding: <BR><BR>
* <PRE>
```

```
*   ListNotificationSubscriptionsRequest ::= SEQUENCE {
*        notificationManagerID          OCTET STRING,
*        notificationDestinationIDs     SET OF OCTET STRING OPTIONAL }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListNotificationSubscriptionsExtendedRequest.java
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*/
/**
```

```
* This enum defines the options that may be specified for the transaction
* commit durability when using the transaction settings request control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*
* @see TransactionSettingsRequestControl
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsCommitDurability.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a search
* request received from a client.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchRequestAccessLogMessage.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a search
* request forwarded to a backend server.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a request control which may be used to request that the
* Directory Proxy Server return the backend set IDs for the entry-balancing
* backend set(s) in which an operation was processed successfully.  It may be
* used in conjunction with the route to backend set request control in order
* to specify which backend set(s) should be used to process an operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
* <BR>
* This control may be used for a number of different kinds of requests,
* including:
* <UL>
*   <LI>If an add request includes a get backend set ID request control, the
*       add response will include a get backend set ID response control if the
*       entry was successfully added to an entry-balanced data set.</LI>
*   <LI>If a simple bind request includes a get backend set ID request control,
*       the bind response will include a get backend set ID response control if
*       the authentication was successful and the entry for the authenticated
*       user exists in an
 entry-balanced data set.  This control is currently
*       not supported for use with SASL bind operations.</LI>
*   <LI>If a compare request includes a get backend set ID request control, the
*       compare response will include a get backend set ID response control if
*       the result code is either COMPARE_TRUE or COMPARE_FALSE and the target
*       entry exists in an entry-balanced data set.</LI>
*   <LI>If a delete request includes a get backend set ID request control, the
*       delete response will include a get backend set ID response control if
*       the entry was successfully removed from an entry-balanced data
*       set.</LI>
*   <LI>If an atomic multi-update extended request includes a get backend set
*       ID request control and the request is successfully processed through an
*       entry-balancing request processor, then the extended response will
*       include a get backend set ID response control.  A non-atomic
*       multi-update extended
 request should not include the get backend set ID
*       request control in the extended operation itself, but may be attached
*       to any or all of the requests inside the multi-update operation, in
*       which case the server will return a multi-update response control
*       attached to the corresponding successful responses.</LI>
*   <LI>If an extended request includes a get backend set ID request control
*       and that request is successfully processed by a proxied extended
*       operation handler, then the extended response will include a get
*       backend set ID response control indicating the backend set(s) that
*       returned a success result during internal processing.  Note that if the
*       same extended request was processed by multiple entry-balancing
*       request processors (i.e., if the deployment includes multiple
*       entry-balanced subtrees), then the extended response may include a
*       separate get backend set ID response control
 for each entry-balancing
*       request processor used to process the request.</LI>
*   <LI>If a modify request includes a get backend set ID request control, the
*       modify response will include a get backend set ID response control if
*       the entry was successfully modified in an entry-balanced data set.</LI>
*   <LI>If a modify DN request includes a get backend set ID request control,
*       the modify DN response will include a get backend set ID response
*       control if the entry was successfully moved and/or renamed in an
```

```
*       entry-balanced data set.</LI>
*   <LI>If a modify DN request includes a get backend set ID request control,
*       the modify DN response will include a get backend set ID response
*       control if the entry was successfully moved and/or renamed in an
*       entry-balanced data set.</LI>
*   <LI>If a search request includes a get backend set ID request control, any
*       search result entries retrieved from an entry-balanced
 data set will
*       include a get backend set ID response control.  The search result done
*       message will not include a get backend set ID response control.</LI>
* </UL>
*
* Note the response for any operation involving an entry that exists outside of
* an entry-balanced dat set will not include a get backend set ID response
* control.  Similarly, the response for any non-successful operation may not
* include a get backend set ID response control even if it involved processing
* in one or more backend sets.  Also note that even if an entry exists in
* multiple backend sets (i.e., because it is at or above the balancing point),
* the get backend set ID response control may only include one backend set ID
* if only one backend set was accessed during the course of processing the
* operation.
* <BR><BR>
* The get backend set ID request control has an OID of
* "1.3.6.1.4.1.30221.2.5.33" and no value.  It is recommended that the control
* be non-critical so
 that the associated operation may still be processed even
* if the target server does not support this control (and note that even if
* the server supports the control, the server may not return a response control
* if the operation was not successful or did not access entry-balanced data).
*
* @see GetBackendSetIDResponseControl
* @see RouteToBackendSetRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetBackendSetIDRequestControl.java

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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
*/
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*/
/**
* This class defines a Directory Server task that can be used to invoke
* third-party code created using the UnboundID Server SDK.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*
  considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The fully-qualified name of the Java class providing the logic for the
*       third-party task.  This must be provided.</LI>
*   <LI>A list of the arguments to use for the task.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ThirdPartyTask.java
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```

```
*/
/**
* This class provides an implementation of an extended result that can be used
* to retrieve a list of all available versions of the configuration within a
* server.  This may include not only the currently-active configuration, but
* also former configurations that have been archived, and the baseline
* configuration for the current server version.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended result is 1.3.6.1.4.1.30221.2.6.27.  If the request
* was processed successfully, then the response will have a value with the
* following encoding:
* <PRE>
*   ListConfigurationsResult ::= SEQUENCE {
*        activeConfigFileName       [0] OCTET STRING,
*        baselineConfigFileNames    [1] OCTET STRING OPTIONAL,
*        archivedConfigFileNames    [2] SEQUENCE OF OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListConfigurationsExtendedResult.java
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/**
* This class provides an implementation of the get connection ID extended
* operation as used in the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server.  It may be used to obtain the connection ID associated
* with the current connection.  This is primarily useful for debugging
* purposes, and the {@link IntermediateClientRequestControl} may also be used
* to obtain this (along with other information).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within
 the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.1.6.2.  It does not
* have a value.
* <BR>
* <H2>Example</H2>
* The following example demonstrates the process for using the get connection
* ID extended operation:
```

```
* <PRE>
* GetConnectionIDExtendedResult result =
*      (GetConnectionIDExtendedResult) connection.processExtendedOperation(
*           new GetConnectionIDExtendedRequest());
*
* // NOTE:  The processExtendedOperation method will generally only throw an
* // exception if a problem occurs while trying to send the
 request or read
* // the response.  It will not throw an exception because of a non-success
* // response.
*
* if (result.getResultCode() == ResultCode.SUCCESS)
* {
*   long connectionID = result.getConnectionID();
* }
* </PRE>
*/
```

Found in path(s):
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*/
/**
* This class provides an implementation of an extended request that can be used
* to retrieve information about which one-time password delivery mechanisms are
* supported for a user.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The OID for this extended request is "1.3.6.1.4.1.30221.2.6.47". It must
* have a value with the following encoding:
*

* <PRE>
*   GetSupportedOTPDeliveryMechanismsRequest ::= SEQUENCE {
*   userDN   [0] LDAPDN,
*   ... }
* </PRE>
*
* @see GetSupportedOTPDeliveryMechanismsExtendedResult
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSupportedOTPDeliveryMechanismsExtendedRequest.java
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*/
/**
* This class provides an implementation of an extended request that may be used
* to request that the server suggest one or more passwords that the client may
* use in new entries, password changes, or administrative password resets.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes
 provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
```

```
* This extended request has an OID of "1.3.6.1.4.1.30221.2.6.62" and a value\
* with the following encoding:
* <BR><BR>
* <PRE>
*   GeneratePasswordRequest ::= SEQUENCE {
*       passwordPolicySelection     CHOICE {
*           defaultPolicy        [0] NULL,
*           passwordPolicyDN     [1] LDAPDN,
*           targetEntryDN        [2] LDAPDN,
*           ... },
*       numberOfPasswords      [3] INTEGER DEFAULT 1,
*       validationAttempts     [4] INTEGER DEFAULT 5,
*       ... }
* </PRE>
* <BR><BR>
* The "passwordPolicySelection" element allows the client to indicate which
* password policy (along with its associated password generator and password
* validators) should be used in the course of generating
 the passwords, and
* available options include:
* <UL>
*   <LI>defaultPolicy -- Indicates that the server should use the default
*       password policy as defined in the configuration.</LI>
*   <LI>passwordPolicyDN -- Specifies the DN of the password policy that should
*       be used.</LI>
*   <LI>targetEntryDN -- Specifies the DN of the target entry for which the
*       passwords are to be generated.  If this entry exists, then the password
*       policy that governs it will be used.  If the entry does not exist, then
*       the server will generate a stub of an entry with the provided DN and
*       compute virtual attributes for that entry to account for the
*       possibility that a password policy may be assigned by a virtual
*       attribute, but will fall back to using the default password policy as
*       defined in the configuration.
* </UL>
* <BR><BR>
* The "numberOfPasswords" element indicates the number of passwords that the
* server should generate,
 since it may be beneficial for the server to suggest
* multiple passwords and allow the user to choose one.  If specified, then the
* value must be greater than or equal to one.
* <BR><BR>
* The "validationAttempts" element indicates the number of attempts that the
* server should make to generate each password in a way that will satisfy the
* set of validators associated with the selected password policy.  A value of
* zero indicates that no validation should be performed.  A value of one will
* cause the server to invoke password validators on each generated password,
* still returning that password but also including information about potential
* reasons that generated password may not pass validation.  A value that is
```

* greater than one will cause the server to re-generate each password up to
* the specified number of times if the previous attempt resulted in a password
* that did not satisfy all of the associated password validators. In the event
* that no acceptable
 password could be generated after exhausting all attempts,
* the server will select the last one generated, but will provide a list of
* reasons that the password was not considered acceptable so that they may be
* provided to the end user as additional guidance when choosing a password.
*

* If the generate password operation is processed successfully, then the server
* will return a {@link GeneratePasswordExtendedResult} response with the
* passwords that it generated and other relevant information.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/GeneratePasswordExtendedRequest.java
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*/
/**
* This class provides an implementation of an extended request that may be used
* to generate a shared secret for use in generating TOTP authentication codes
* (as per <A HREF="http://www.ietf.org/rfc/rfc6238.txt">RFC 6238</A>, for
* example, using the mechanism provided in the
* {@link com.unboundid.ldap.sdk.unboundidds.OneTimePassword} class), which can
* be used to authenticate to the server via the
* {@link com.unboundid.ldap.sdk.unboundidds.UnboundIDTOTPBindRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>
  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request may be invoked in one of following ways:
* <BR><BR>
* <UL>
*   <LI>
*     With a {@code null} authentication identity and a non-{@code null} static
*     password.  In this case, the authorization identity for the operation
*     (typically the user as whom the underlying connection is authenticated,
*     but possibly a different user if the request also includes a control like
*     the proxied authorization or intermediate client request control that
*     specifies
 and alternate authorization identity, or if the client
*     authenticated with a SASL mechanism that included an alternate
*     authorization identity) will be used as the authentication identity for
*     this request, and the static password must be valid for that user.  This
*     will be treated as a user requesting a TOTP shared secret for their own
*     account.
*   </LI>
*   <LI>
*     With a non-{@code null} authentication identity (which may or may not
*     match the authorization identity for the operation) and a
*     non-{@code null} static password that is valid for the provided
```

```
*     authentication identity.  This will also be treated as a user requesting
*     a TOTP shared secret for their own account.
*   </LI>
*   <LI>
*     With a non-{@code null} authentication identity and a {@code null} static
*     password.  In this case, the authentication identity must not match the
*     authorization identity for the operation, and the authorization identity
 *     must have the password-reset privilege.  This will be treated as an
*     administrator requesting a TOTP shared secret on behalf of a user and is
*     recommended only for the case in which the identity of the user has been
*     verified through some means other than a static password.
*   </LI>
* </UL>
* <BR><BR>
* If the request is processed successfully, the server will generate a TOTP
* shared secret for the user, will store it in the user's entry, and will
* return that secret back to the client via the
* {@link GenerateTOTPSharedSecretExtendedResult}.
* <BR><BR>
* Note that this operation will not interfere with any other TOTP shared
* secrets that may already exist in the user's entry; the new shared secret
* will be merged with any existing shared secret values for the user.  If a
* TOTP shared secret is no longer needed, the
* {@link RevokeTOTPSharedSecretExtendedRequest} may be used to remove it from
* the user's account.
* <BR><BR>
* This extended
 request has an OID of 1.3.6.1.4.1.30221.2.6.56, and it must
* include a request value with the following encoding:
* <BR><BR>
* <PRE>
*   GenerateTOTPSharedSecretRequest ::= SEQUENCE {
*       authenticationID     [0] OCTET STRING OPTIONAL,
*       staticPassword       [1] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GenerateTOTPSharedSecretExtendedRequest.java
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*/
/**
* This class defines the superclass for extended results that may be returned
* in response to the replace certificate extended requests, including
* {@link ReplaceListenerCertificateExtendedRequest},
* {@link ReplaceInterServerCertificateExtendedRequest},
* {@link PurgeRetiredListenerCertificatesExtendedRequest}, and
* {@link PurgeRetiredInterServerCertificatesExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure,
 are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
```

```
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The extended result may have an OID that matches that of the associated
* extended result, and it may have a value with the following encoding:
* <PRE>
*   ReplaceCertificateResponseValue ::= SEQUENCE {
*     toolOutput     [16] OCTET STRING OPTIONAL,
*     ... }
* </PRE>
* <BR><BR>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceCertificateExtendedResult.java
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*/
/**
* This class provides a request control that can be used to specify a number of
* settings used for any database transaction that may be associated with the
* associated request.  It may be included in an end transaction extended
* request or an atomic multi-update extended request (it is not supported for
* use in non-atomic multi-update requests).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.38.  It may have a
* criticality of either {@code true} (in which case the server will reject the
* associated operation if this control is not recognized) or {@code false} (in
* which case the server will ignore this control if it is not recognized).  It
* must have a value with the following encoding:
* <PRE>
*   TransactionSettingsRequestValue ::= SEQUENCE {
*       transactionName             [0] OCTET STRING OPTIONAL,
*       commitDurability            [1] ENUMERATED {
*           nonSynchronous           (0),
*           partiallySynchronous
     (1),
*           fullySynchronous         (2),
*           ... } OPTIONAL,
*       backendLockBehavior         [2] ENUMERATED {
*           doNotAcquire                (0),
*           acquireAfterRetries         (1),
*           acquireBeforeRetries        (2),
*           acquireBeforeInitialAttempt     (3),
*           ... } OPTIONAL,
*       backendLockTimeoutMillis    [3] INTEGER OPTIONAL,
*       retryAttempts               [4] INTEGER OPTIONAL,
*       txnLockTimeout              [5] SEQUENCE {
*           minTimeoutMillis     INTEGER,
*           maxTimeoutMillis     INTEGER,
```

```
*            ... } OPTIONAL,
*       returnResponseControl       [6] BOOLEAN DEFAULT FALSE,
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsRequestControl.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
```

```
* This class provides a command-line tool that may be used to invoke the
* collect-support-data utility in the Ping Identity Directory Server and
* related server products.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Note that this is a client-side wrapper for the application.  While it may
* be used to invoke the tool against a remote server using the
* {@link CollectSupportDataExtendedRequest}, it does not include direct support
* for invoking the tool against a local instance.  That will be accomplished
* indirectly by invoking the server-side version of the tool via reflection.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/CollectSupportData.java
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*/
/**
* This class provides a data structure for representing an administrative entry
* as exposed by the alerts backend in the Directory Server.  Alert entries
* provide information about warnings, errors, or other significant events that
* could impact the availability or function of the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID,
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
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```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/AlertEntry.java
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*/
/**
* This class provides an implementation of the virtual attributes only request
* control, which may be included in a search request to indicate that only
* virtual attributes should be included in matching entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 *   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control is not based on any public standard, but was first introduced in
* the Netscape/iPlanet Directory Server.  It is also supported in the Sun Java
* System Directory Server, OpenDS, and the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server.  It does not have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the virtual attributes only
* request control:
* <PRE>
```

```
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe"));
*
* searchRequest.addControl(new VirtualAttributesOnlyRequestControl());
* SearchResult searchResult = connection.search(searchRequest);
* </PRE>
*/
```

Found in path(s):

```
*
 /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/VirtualAttributesOnlyRequestControl.java
```

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*/
/**
* This class provides a thread that will be registered as a JVM shutdown hook
* for any command-line tool for which invocation logging is to be performed.
* If the tool is interrupted by a JVM shutdown (for example, if the JVM
* receives a kill signal, if the user presses Control+C, or the tool calls
* System.exit) before it can complete naturally, then this shutdown hook thread
* will be run to try to ensure that the tool invocation log includes a record
* of the abnormal shutdown.
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolInvocationLogShutdownHook.java
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*/
/**
* This class provides a data structure with information about a one-time
* password delivery mechanism that is supported by the Directory Server and may
* or may not be supported for a particular user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
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*/
/**
* This class provides an implementation of a JSON object filter that can
* perform a logical AND across the result obtained from a number of filters.
* The AND filter will match an object only if all of the filters contained in
* it match that object.  An AND filter with an empty set of embedded filters
* will match any object.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "AND" filter are:
* <UL>
*   <LI>
*    {@code andFilters} -- An array of JSON objects, each of which is a valid
*    JSON object filter.  Each of these filters must match a JSON object in
```

```
*     order for the AND filter to match.  If this is an empty array, then the
*     filter will match any object.
*   </LI>
* </UL>
* <BR><BR>
* <H2>Examples</H2>
* The following is an example of an AND filter that will match any JSON object:
* <PRE>
*   { "filterType" : "and",
*     "andFilters" : [ ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   ANDJSONObjectFilter
 filter = new ANDJSONObjectFilter();
* </PRE>
* <BR><BR>
* The following is an example of an AND filter that will match any JSON object
* in which there is a top-level field named "firstName" with a String value of
* "John" and top-level field named "lastName" with a String value of "Doe":
* <PRE>
*   { "filterType" : "and",
*     "andFilters" : [
*       { "filterType" : "equals",
*         "field" : "firstName",
*         "value" : "John" },
*       { "filterType" : "equals",
*         "field" : "lastName",
*         "value" : "Doe" } ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   ANDJSONObjectFilter filter = new ANDJSONObjectFilter(
*        new EqualsJSONObjectFilter("firstName", "John"),
*        new EqualsJSONObjectFilter("firstName", "Doe"));
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/ANDJSONObjectFilter.java
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*/
/**
* This class provides an intermediate response listener that will be used to
* process entries and other types of intermediate responses returned during the
* course of processing a get changelog batch extended operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetChangelogBatchIntermediateResponseListener.java
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*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have a particular value for a specified
* field.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

```
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in a "regular expression" filter
* are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which to
*     make the determination.  This may be either a single string or an array
*     of strings as described in the "Targeting Fields in JSON Objects" section
*     of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
*   <LI>
*     {@code regularExpression} -- The regular expression to use to identify
*     matching values.  It must be compatible for use with the Java
*     {@code java.util.regex.Pattern} class.
*   </LI>
* </UL>
* The fields that may optionally be included in a "regular expression" filter
* are:
* <UL>
*   <LI>
*     {@code matchAllElements} -- Indicates whether all elements
 of an array
*     must match the provided regular expression.  If present, this field must
*     have a Boolean value of {@code true} (to indicate that all elements of
*     the array must match the regular expression) or {@code false} (to
*     indicate that at least one element of the array must match the regular
*     expression).  If this is not specified, then the default behavior will be
*     to require only at least one matching element.  This field will be
*     ignored for JSON objects in which the specified field has a value that is
*     not an array.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of a "regular expression" filter that will match
* any JSON object with a top-level field named "userID" with a value that
* starts with an ASCII letter and contains only ASCII letters and numeric
* digits:
* <PRE>
*   { "filterType" : "regularExpression",
*     "field" : "userID",
```

```
*     "regularExpression" : "^[a-zA-Z][a-zA-Z0-9]*$" }
* </PRE>
 * The above filter can be created with the code:
* <PRE>
*   RegularExpressionJSONObjectFilter filter =
        new RegularExpressionJSONObjectFilter("userID",
            "^[a-zA-Z][a-zA-Z0-9]*$");
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/RegularExpressionJSONObjectFilter.java
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/**
* This class provides a response control that may be used to provide the
* client with information about transaction-related information over the
* course of the associated operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.39.  It should have a
* criticality of {@code false}, and a value with the following encoding:
* <PRE>
*   TransactionSettingsResponseValue ::= SEQUENCE {
*       numLockConflicts        [0] INTEGER
*       backendLockAcquired     [1] BOOLEAN,
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsResponseControl.java
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*/
/**
* This class provides a data structure that may be used to hold information
* about disk space information for a Directory Server component.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/DiskSpaceInfo.java
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*/
/**
* This class provides a command-line tool that can be used to delete one or
* more entries from an LDAP directory server.  The DNs of entries to delete
* can be provided through command-line arguments, read from a file, or read
* from standard input.  Alternately, the tool can delete entries matching a
* given search filter.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDelete.java
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*/
/**
* This class provides an extended request that may be used to clear a server
* alarm condition about missed change notifications.
 * <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
```

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*   for proprietary functionality or for external specifications that are not
*
  considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The request has an OID of 1.3.6.1.4.1.30221.2.6.42 and a value with the
* following encoding:
* <BR><BR>
* <PRE>
*   ClearMissedNotificationChangesAlarmRequest ::= SEQUENCE {
*        notificationManagerID         OCTET STRING,
*        notificationDestinationID     OCTET STRING }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ClearMissedNotificationChangesAlarmExtendedRequest.java
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*/
/**
* This class provides a data structure for representing an administrative entry
* as exposed by the alarms backend in the Directory Server. Alarm entries
* provide information about potential ongoing or resolved conditions within the
* server.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an
* intermediate response returned to a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/logs/IntermediateResponseAccessLogMessage.java
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*/
/**
* This class provides an implementation of the real attributes only request
* control, which may be included in a search request to indicate that only
* real (i.e., non-virtual) attributes should be included in matching entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control is not based on any public standard, but was first introduced in
```

```
* the Netscape/iPlanet Directory Server.  It is also supported in the Sun Java
* System Directory Server, OpenDS, and the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server.  It does not have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the real attributes only
* request control:
* <PRE>
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe"));
*
* searchRequest.addControl(new RealAttributesOnlyRequestControl());
* SearchResult searchResult = connection.search(searchRequest);
* </PRE>
*/
```

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path(s):
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jar/com/unboundid/ldap/sdk/unboundidds/controls/RealAttributesOnlyRequestControl.java
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*/
/**
* This class implements an extended result that may be returned in response to
* a {@link ReplaceInterServerCertificateExtendedRequest}. See the
* {@link ReplaceCertificateExtendedResult} class for a description of the
* content for the result.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceInterServerCertificateExtendedResult.java
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*/
/**
* This class defines a monitor entry that provides general information about
* an LDAP external server used by the Directory Proxy Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are
 not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Information that it may make available includes:
* <UL>
*   <LI>The address, port, and security mechanism used to communicate with the
*       server.</LI>
*   <LI>The DN of the configuration entry for the load-balancing algorithm that
*       is using the LDAP external server object.</LI>
*   <LI>Information about the health of the LDAP external server.</LI>
*   <LI>The number of attempted, successful, and failed operations processed
*       using the LDAP external server.</LI>
* </UL>
* The server should present an LDAP external server monitor entry for each
```

* server used by each load-balancing algorithm. These entries can be retrieved
* using the {@link MonitorManager#getLDAPExternalServerMonitorEntries} method.
* These entries provide specific methods for accessing this information.
* Alternately, the information
 may be accessed using the generic API. See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/LDAPExternalServerMonitorEntry.java
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*/
/**
* This class provides an implementation of the name with entryUUID request
* control.  It may be included in an add request to indicate that the server
* should replace the provided RDN with the server-generated entryUUID value.
* It will also cause the server to include a
* {@link com.unboundid.ldap.sdk.controls.PostReadResponseControl} in
* the add result to make the generated DN available to the client.  If the
* request already includes a
* {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl},
 then the
* attributes included in the post-read response control will be generated from
* that request control.  Otherwise, the server will behave as if the request
* had included a post-read request control requesting only the entryUUID
* attribute.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of "1.3.6.1.4.1.30221.2.5.44".  It is recommended
* that it be used with a criticality of {@code true}.  It does not take a
* value.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/NameWithEntryUUIDRequestControl.java
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*/
/**
* This enum defines the types of configurations that may be obtained using the
* get configuration extended operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
/**
  * The type used to specify the baseline configuration for the current server
  * version.
  */
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConfigurationType.java

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/**
* This class provides a data structure for holding information about the
* configuration of backend sets as used by the stream proxy values extended
* request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamProxyValuesBackendSet.java
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```

```
/**
* This class provides an implementation of a request control that can be
* included in a bind request to indicate that the server should include a
* control in the bind response with information about any password policy state
* notices, warnings, and/or errors for the user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.46 and no value.  It must
* only be used in a bind request that also includes the
* {@link RetainIdentityRequestControl}, and the authentication identify of the
* connection prior to sending the bind request must have the
* permit-get-password-policy-state-issues privilege.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/GetPasswordPolicyStateIssuesRequestControl.java
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/**
* This class provides an implementation of the end administrative session
* extended request, which indicates that an administrative session created via
* with the {@link StartAdministrativeSessionExtendedRequest} should be ended.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.14, and it does not
* take a value.
* <BR><BR>
* See the documentation for the
* {@link StartAdministrativeSessionExtendedRequest} for more information about
* creating and using administrative sessions.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndAdministrativeSessionExtendedRequest.java
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify DN
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNRequestAccessLogMessage.java
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/**
* This class defines a data structure that provides information about the
* availability of an LDAP external server associated with a load-balancing
* algorithm.
```

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/LoadBalancingAlgorithmServerAvailabilityData.java
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/**
* This enum defines the options that may be specified to indicate whether and
* when to acquire an exclusive lock in the target backend when processing a
* transaction.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*
* @see TransactionSettingsRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsBackendLockBehavior.java
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*/
/**
* This class defines a Directory Server task that can be used to shut down or
* restart the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>A flag that indicates whether to shut down the server or to perform
*       an in-core restart (in which the server shuts down and restarts itself
*       within the same JVM).</LI>
*   <LI>An optional message that can be used to provide a reason for the
*       shutdown or restart.</LI>
* </UL>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ShutdownTask.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/examples/IdentifyReferencesToMissingEntries.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/experimental/ActiveDirectoryDirSyncControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DisconnectInfo.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/FewestConnectionsServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/PasswordReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/CommandLineToolShutdownHook.java

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*/
/**
* This class provides a mechanism for reading messages from a Directory Server
* audit log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
```

```
*   considered stable or mature enough to
 be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/AuditLogReader.java
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*/
/**
* This class defines a monitor entry that provides information about the state
```

```
* of a replication server, including the base DNs for replicated content, the
* generation ID for each of those base DNs, the replication server ID, and the
* port number on which the replication server is listening.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID,
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server should present at most one replication server monitor entry.  It
* can be retrieved using the
* {@link MonitorManager#getReplicationServerMonitorEntry} method.  This entry
* provides specific methods for accessing information about the replication
* server.  Alternately, this information may be accessed using the generic API.
* See the {@link MonitorManager} class documentation for an example that
* demonstrates the use of the generic API for accessing monitor data.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicationServerMonitorEntry.java
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*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects containing a specified field, optionally
* restricting it by the data type of the value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary
 functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in a "contains field" filter are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which to
*     make the determination.  This may be either a single string or an
*     array of strings as described in the "Targeting Fields in JSON Objects"
*     section of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
* </UL>
* The fields that may optionally be included in a "contains field" filter are:
* <UL>
*   <LI>
*     {@code expectedType} -- Specifies the expected data type for the value of
*     the target field.  If this is not specified, then any data type will be
*     permitted.  If this is specified, then the filter will only match a JSON
```

```
*     object that
 contains the specified {@code fieldName} if its value has the
*     expected data type.  The value of the {@code expectedType} field must be
*     either a single string or an array of strings, and the only values
*     allowed will be:
*     <UL>
*       <LI>
*         {@code boolean} -- Indicates that the value may be a Boolean value of
*         {@code true} or {@code false}.
*       </LI>
*       <LI>
*         {@code empty-array} -- Indicates that the value may be an empty
*         array.
*       </LI>
*       <LI>
*         {@code non-empty-array} -- Indicates that the value may be an array
*         that contains at least one element.  There will not be any
*         constraints placed on the values inside of the array.
*       </LI>
*       <LI>
*         {@code null} -- Indicates that the value may be {@code null}.
*       </LI>
*       <LI>
*         {@code number} -- Indicates that the value may be a number.
*       </LI>
*       <LI>
*         {@code
 object} -- Indicates that the value may be a JSON object.
*       </LI>
*       <LI>
*         {@code string} -- Indicates that the value may be a string.
*       </LI>
*     </UL>
*   </LI>
* </UL>
* <H2>Examples</H2>
* The following is an example of a "contains field" filter that will match any
* JSON object that includes a top-level field of "department" with any kind of
* value:
* <PRE>
*   { "filterType" : "containsField",
*     "field" : "department" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   ContainsFieldJSONObjectFilter filter =
*        new ContainsFieldJSONObjectFilter("department");
* </PRE>
```

```
* <BR><BR>
* The following is an example of a "contains field" filter that will match any
* JSON object with a top-level field of "first" whose value is a JSON object
* (or an array containing a JSON object) with a field named "second" whose
* value is a Boolean of either {@code true} or {@code false}.
* <PRE>
*   { "filterType"
 : "containsField",
*     "field" : [ "first", "second" ],
*     "expectedType" : "boolean" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   ContainsFieldJSONObjectFilter filter = new ContainsFieldJSONObjectFilter(
*        Arrays.asList("first", "second"),
*        EnumSet.of(ExpectedValueType.BOOLEAN));
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/ContainsFieldJSONObjectFilter.java
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*/
/**
* This package contains a number of helper classes for interacting with monitor
* entries ing Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server
* products. It provides methods for parsing the monitor entries as specific
* subtypes and for extracting the information that they provide in useful ways.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use
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*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The {@code MonitorManager} class provides a number of utility methods for
* retrieving server monitor entries from a Ping Identity/UnboundID Directory
* Server. The {@code MonitorEntry} class and its subclasses provide access to
* the data in those monitor entries.
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/package-info.java
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*/
/**
* This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* selecting the set that currently has the fewest entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIFFewestEntriesTranslator.java
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*/
/**
  * The quality of protection that should be used for any communication that occurs after the authentication has
completed.  Allowed values are "auth" (for just authentication with no communication protection), "auth-int" (for
integrity protection for communication, which does not encrypt but ensures that the communication cannot be
imperceptibly altered by a man in the middle attack), and "auth-conf" (for confidentiality protection for
communication, which encrypts the communication so that it cannot be deciphered
 by a third-party observer).  If no value is specified, then a default of "auth" will be assumed.  If any of multiple
qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas
and listed in order from most desirable to least desirable.
  */
```

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*/
/**
* This class defines a Directory Server task that can be used to perform an
* internal search within the server and write the contents to an LDIF file.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
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```
*   for proprietary functionality or for external specifications
 that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The base DN to use for the search.  This is required.</LI>
*   <LI>The scope to use for the search.  This is required.</LI>
*   <LI>The filter to use for the search.  This is required.</LI>
*   <LI>The attributes to return.  This is optional and multivalued.</LI>
*   <LI>The authorization DN to use for the search.  This is optional.</LI>
*   <LI>The path to the output file to use.  This is required.</LI>
* </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/SearchTask.java
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/**
* This class defines a data structure that will provide information about
* notices pertaining to a user's password policy state (items that might be
* of interest, but do not necessarily represent a current or imminent problem
* with the account).  It includes a number of predefined notice types, but also
* allows for the possibility of additional notice types that have not been
* defined.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   supported for use against Ping Identity, UnboundID, and
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*/
/**
* This class provides an implementation of the password policy request control
* as described in draft-behera-ldap-password-policy.  It may be used to request
* information related to a user's password policy.  In the Ping Identity,
* UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server, this control may
* be included with add, bind, compare, modify, and password modify requests.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
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*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.42.2.27.8.5.1.  The
* criticality may be either true or false.  It does not have a value.
* <BR><BR>
* The corresponding {@link PasswordPolicyResponseControl} may include at most
* one warning from the set of {@link PasswordPolicyWarningType} values and at
* most one error from the set of {@link PasswordPolicyErrorType} values.  See
* the documentation for those classes for more information on the information
* that may be included.
```

```
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the password policy
 request
* control in conjunction with a bind operation:
* <PRE>
* SimpleBindRequest bindRequest = new SimpleBindRequest(
*      "uid=john.doe,ou=People,dc=example,dc=com", "password",
*      new PasswordPolicyRequestControl());
*
* BindResult bindResult;
* try
* {
*   bindResult = connection.bind(bindRequest);
* }
* catch (LDAPException le)
* {
*   // The bind failed.  There may be a password policy response control to
*   // help tell us why.
*   bindResult = new BindResult(le.toLDAPResult());
* }
*
* PasswordPolicyResponseControl pwpResponse =
*      PasswordPolicyResponseControl.get(bindResult);
* if (pwpResponse != null)
* {
*   PasswordPolicyErrorType errorType = pwpResponse.getErrorType();
*   if (errorType != null)
*   {
*     // There was a password policy-related error.
*   }
*
*   PasswordPolicyWarningType warningType = pwpResponse.getWarningType();
*   if (warningType != null)
*   {
*     // There was a password policy-related warning.
*
    int value = pwpResponse.getWarningValue();
*     switch (warningType)
*     {
*       case TIME_BEFORE_EXPIRATION:
*         // The warning value is the number of seconds until the user's
*         // password expires.
*         break;
*       case GRACE_LOGINS_REMAINING:
*         // The warning value is the number of grace logins remaining for
*         // the user.
*     }
```

```
*   }
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordPolicyRequestControl.java
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*/
/**
  * Include the UnboundID-proprietary get authorization entry request control in all bind requests to indicate that the
```

bind result should include the specified attributes from the entries for the authentication and authorization identities. This argument may be provided multiple times to specify multiple attributes to request.
*/
/**
* Include the UnboundID-proprietary operation purpose request control in all compare requests to provide information about the purpose for the operation.
*/
/**
* Include the
UnboundID-proprietary get user resource limits request control in all bind requests to indicate that a successful bind result should include information about resource limits (e.g., size limit, time limit, idle time limit, etc.) that the server may impose for the user.
*/
/**
* Indicates that bind requests should include the Ping Identity-proprietary get authorization entry request control to retrieve the specified attribute from the authenticated user"s entry. This argument may be provided multiple times to request that multiple attributes be returned.
*/
/**
* Indicates that delete requests sent through a Directory Proxy Server should include the Ping Identity-proprietary get backend set ID request control to indicate that the response should include a control with the ID of the entry-balancing backend set in which the delete was processed.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary get server ID request control to indicate that the response should include a control with the server ID of the Directory Server instance in which the delete was processed.
*/
/**
* Indicates that bind requests should include the Ping Identity-proprietary get user resource limits request control to retrieve information about the resource limits that the server will impose for the authenticated connection.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary hard delete request control to indicate that the target entries should be completely removed, even if they would have otherwise been processed as soft deletes.
*/
/**
* Indicates that requests should include the Ping Identity-proprietary operation purpose request control to indicate the intended purpose for the operations.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary replication repair request control to indicate that the delete operation should not be replicated.
*/
/**

* Indicates that search and delete requests should include the Ping Identity-proprietary route to backend set request control to indicate that the Directory Proxy Server should forward those requests to servers in the specified entry-balancing backend set. This control may be provided multiple times to specify multiple backend sets for the same or different entry-balancing request processors.
*/
/**
* Indicates that search and delete requests should include the Ping Identity-proprietary route to server request control to indicate that the Directory Proxy Server should forward those requests to the specified backend server.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary soft delete request control to indicate that the server should hide the entries rather than deleting them immediately. Soft-deleted may or may not be completely removed after a period of time, based on the server configuration.
*/
/**
* Indicates that delete requests
should include the Ping Identity-proprietary suppress referential integrity updates request control so that the server will not perform any referential integrity processing for the delete operation.
*/
/**
* Indicates that the tool should attempt to use the Ping Identity-proprietary start administrative session extended operation to create an administrative session that will cause all requests to be processed in a dedicated pool of worker threads. This may be useful when trying to diagnose or resolve an issue when all regular worker threads are busy processing other requests
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary assured replication request control to delay the response from the server until the change has been replicated to other servers. The --assuredReplicationLocalLevel, --assuredReplicationRemoteLevel, and --assuredReplicationTimeout arguments may also be used to customize the content of the request control.
*/
/**
* Indicates that all operation requests should include the UnboundID-proprietary assured replication request control to indicate that the server should delay returning a response to the client until a minimum amount of replication processing has been performed for the operation. The "--{0}", "--{1}", and "--{2}" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided.
*/
/**
* Indicates that all bind requests should include the UnboundID-proprietary get authorization entry request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like "*" to indicate all user attributes or "+" to indicate all operational attributes) from the authenticated user"s entry. This argument may be provided multiple times to specify multiple attributes to request.
*/
/**
* Indicates that all add, delete, modify, and modify DN requests should include the UnboundID-proprietary get backend set ID request control to request that the Directory Proxy Server include a corresponding get backend set ID response control in each operation response, indicating the entry-balancing backend set in which the write was

processed.
  */
/**
  * Indicates that all add, delete modify, and modify DN requests should include the UnboundID-proprietary get server ID request control to request that server include a corresponding get server ID response control in each operation response, indicating the server in which the write was processed.
  */
/**
  * Indicates that all bind requests should include the UnboundID-proprietary get user resource limits request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.
  */
/**
  * Indicates that all delete requests should include
 the UnboundID-proprietary hard delete request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.
  */
/**
  * Indicates that all add and modify requests should include the UnboundID-proprietary ignore NO-USER-MODIFICATION request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients.
  */
/**
  * Include the UnboundID-proprietary name with entryUUID request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN.
  */
/**
  * Indicates that all operations should include the UnboundID-proprietary operation purpose request control to provide the specified reason for the operation.
  */
/**
  * Indicates that all add and modify requests
 that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary password validation details request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user"s password and whether the provided password satisfies each of those constraints.
  */
/**
  * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary purge current password request control. This will indicate that the server should could purge the current password from the entry (even if it would have otherwise been retired for a brief period of time).
  */
/**
  * Indicates that all operation requests should include the UnboundID-proprietary replication repair request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology.

```
  */
/**
   * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the
UnboundID-proprietary retire current password request control.  This will indicate that the server should continue to
allow the user to authenticate with their current password (in addition to the new password) for a brief period of
time.
  */
/**
  * Indicates that all delete requests should include the UnboundID-proprietary soft delete request control, which
indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an
undelete operation if the delete should be reverted.
  */
/**
  * Indicates that all operations should include the UnboundID-proprietary suppress operational attribute updates
request control to indicate that the server should not apply any updates to the specified operational attributes.  The
value may be one of "last-access-time", "last-login-time", "last-login-ip", or "lastmod".
   */
/**
  * Indicates that the tool should include the UnboundID-proprietary suppress referential integrity updates request
control in all delete and modify DN operations to indicate that the server should not perform any referential integrity
processing for those operations.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary account usable request control to
request that each search result entry returned include a response control with information about the password policy
usability state for the entry.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary exclude branch request control to
indicate that matching entries below the specified base DN should be excluded from search results.  This argument
may be provided multiple times if multiple branches should be excluded.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary get backend set ID request control to
request
 that the Directory Proxy Server include a corresponding get backend set ID response control in each search result
entry, indicating the entry-balancing backend set from which that entry was retrieved.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary get effective rights request control to
return information about the access control rights that a user has when interacting with each matching entry.  This
argument may be provided multiple times to specify multiple attributes.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary get effective rights request control to
return information about the access control rights the specified user has when interacting with each matching entry.
  */
/**
```

```
  * Indicates that all search requests should include the UnboundID-proprietary get server ID request control to
request that server include a corresponding get server ID response control in each search result entry, indicating
 the server from which that entry was retrieved.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary return conflict entries request control
to indicate that the server may return any replication conflict entries that match the search criteria.  Replication
conflict entries are normally excluded from search results.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary soft-deleted entry access request
control to indicate that the server may return any soft-deleted entries that match the search criteria.  Soft-deleted
entries are normally excluded from search results.  The value for this argument must be one of:  "with-non-deleted-
entries" (indicates that both regular and soft-deleted entries should be returned), "without-non-deleted-entries"
(indicates that only soft-deleted entries should be returned), or "deleted-entries-in-undeleted-form" (returns only
soft-deleted entries in the form in the
 form the entries had before they were deleted).
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary matching entry count request control,
which indicates that the server should return information about the number of entries that match the search criteria.
The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an
estimate will be returned.  If alwaysExamine is specified and the number of candidates is less than the examine
count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to
the client in a search.  If allowUnindexed is specified, then the count will be allowed to be processed even if the
search is unindexed (and may take a very long time to complete).  If extended is specified, then the client will
request extended response data from the server.  If debug is specified, then additional debug information may be
included in the output.
   */
/**
  * Indicates that all search requests should include the UnboundID-proprietary operation purpose request control to
provide the specified reason for the operation.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request
control to indicate that the server should process the search operation even if it cannot do so efficiently using server
indexes.  The requester must have either the unindexed-search or unindexed-search-with-control privilege.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary real attributes only request control to
indicate that the server should not include any virtual attributes in entries that are returned.
  */
/**
  * Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request
control to indicate that the server should not process the search operation if it cannot do so efficiently using server
indexes,
 even if the requester has the unindexed-search privilege.
  */
```

```
/**
  * Indicates that all search requests should include the UnboundID-proprietary virtual attributes only request control to indicate that the server should only include virtual attributes in entries that are returned.
  */
/**
  * Include the proprietary undelete request control in all add requests that include the "ds-undelete-from-dn" attribute.  This control indicates that the server should un-delete the target soft-deleted entry rather than creating a new entry.  The server must be configured to allow soft delete operations, and the requester must hav ethe soft-delete-read privilege.
  */
/**
  * Include the proprietary hard delete request control in all delete requests.  This control indicates that the server should completely remove the target entry, even if it would have otherwise automatically processed the operation as a soft delete.
  */
/**
  * Include the proprietary ignore NO-USER-MODIFICATION
 request control in all add and modify requests.  This control indicates that the server should not reject requests in which the client attempts to set values for attribute types declared with the NO-USER-MODIFICATION constraint in the schema.  This control primarily applies to add operations, but the server can be configured to allow it for a limited set of attributes in modify operation.
  */
/**
  * Include the proprietary name with entryUUID request control in all add requests.  This control indicates that the server should use entryUUID as the naming attribute for the entry, rather than the RDN included in the add request.
  */
/**
  * Include the proprietary operation purpose request control in all requests.  This control provides a human-readable reason for the associated operation.
  */
/**
  * Include the proprietary password update behavior request control in all add and modify requests.  This control may be used to customize the server"s treatment of any passwords contained
 in the request.  Values for this argument must be provided in the form "name=value", where the property can be any of the following:  is-self-change, allow-pre-encoded-password, skip-password-validation, ignore-password-history, ignore-minimum-password-age, password-storage-scheme, and must-change-password.  The value for the password-storage-scheme property should be the name of the desired scheme, and the value for all other properties should be either "true" or "false".  This argument can be provided multiple times to specify multiple password update behaviors.
  */
/**
  * Include the proprietary soft delete request control in all delete requests.  This control indicates that the server should hide the target entry for a period of time before actually removing it so that it may be restored with an undelete operation if the delete should be reverted.
  */
/**
  * Include the proprietary suppress operational attribute update request control in all add, bind, delete,
```

modify, and modify DN requests. This control indicates that the server should not update the specified operational attribute in the course of processing the operation. The value may be one of "last-access-time", "last-login-time", "last-login-ip", or "lastmod". This argument may be provided multiple times to suppress updates to multiple operational attributes.

*/

/**

* Include the proprietary suppress referential integrity updates request control in all delete and modify DN requests. This control indicates that the server should not perform any referential integrity processing for the associated operation.

*/

/**

* Include the proprietary assured replication request control in all add, delete, modify, and modify DN requests. This control indicates that the server should wait for confirmation that the change has been replicated to a minimum degree of assurance before returning the response to the client.

*/

/**

* Include the proprietary replication repair

request control in all add, delete, modify, and modify DN requests. This control indicates that the requested operation should only be processed in the server instance that originally received the change, and it should not be replicated to other servers in the topology. This should generally only be used under the direction of support personnel.

*/

/**

* Include the UnboundID-proprietary assured replication request control to indicate that the update response should be delayed until the change has been sufficiently replicated to other servers.

*/

/**

* Include the UnboundID-proprietary get authorization entry request control in the bind request to indicate that the bind response should include the entry for the authenticated user with the specified attribute. This argument may be provided multiple times to specify that multiple attributes from the user entry should be included.

*/

/**

* Include the UnboundID-proprietary get password validation details request control

in the request used to update the password. The corresponding response control will include information about the requirements that the server will impose for the target user and whether the provided new password satisfies each of those constraints.

*/

/**

* Include the UnboundID-proprietary get user resource limits request control in the bind request to indicate that the server should return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

*/

/**

* Include the UnboundID-proprietary operation purpose request control in the request sent to update the target user"s password to provide additional information about the purpose for the request.

*/

/**

* Include the UnboundID-proprietary password update behavior request control in the request used to update the

password to specify settings that the server should use when updating the password. Values of this argument must be in the form "name=value", where
 the property name can be any one of the following: is-self-change, allow-pre-encoded-password, skip-password-validation, ignore-password-history, ignore-minimum-password-age, password-storage-scheme, and must-change-password. The value for each property should be either "true" or "false", with the exception of the storage-scheme property, whose value should be the name of the desired password storage scheme to use to encode the new password. This argument can be provided multiple times to specify multiple password update behaviors.
  */
/**
  * Indicate the UnboundID-proprietary purge password request control in the request used to update the password. This will indicate that the server should completely remove the former password from the user"s entry, even if the server would have otherwise retired the former password for a brief period of time.
  */
/**
  * Include the UnboundID-proprietary retire password request control in the request used to update the password.
 This will indicate that the server should continue to allow the user to authenticate with their former password (in addition to the new password) for a brief period of time.
  */

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolMessages.java
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*/
/**
* This class provides an implementation of a SASL bind request that may be used
* to authenticate to a Directory Server using the UNBOUNDID-YUBIKEY-OTP
* mechanism.  The credentials include at least an authentication ID and a
* one-time password generated by a YubiKey device.  The request may also
* include a static password (which may or may not be required by the server)
* and an optional authorization ID.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds}
 package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The UNBOUNDID-YUBIKEY-OTP bind request MUST include SASL credentials with the
* following ASN.1 encoding:
* <BR><BR>
* <PRE>
*   UnboundIDYubiKeyCredentials ::= SEQUENCE {
*       authenticationID     [0] OCTET STRING,
*       authorizationID      [1] OCTET STRING OPTIONAL,
*       staticPassword       [2] OCTET STRING OPTIONAL,
*       yubiKeyOTP           [3] OCTET STRING,
*       ... }
* </PRE>
*
*
* @see  RegisterYubiKeyOTPDeviceExtendedRequest
* @see  DeregisterYubiKeyOTPDeviceExtendedRequest
*/
```

Found in path(s):

* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDYubiKeyOTPBindRequest.java
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*/
/**
* This class provides an implementation of an extended request which may be
* used to retrieve a batch of changes from a Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
```

```
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are
 not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The changelog batch request value is encoded as follows:
* <PRE>
*   ChangelogBatchRequest ::= SEQUENCE {
*       startingPoint                   CHOICE {
*           resumeWithToken         [0] OCTET STRING,
*           resumeWithCSN           [1] OCTET STRING,
*           beginningOfChangelog    [2] NULL,
*           endOfChangelog          [3] NULL,
*           changeTime              [4] OCTET STRING,
*           ... },
*       maxChanges                      INTEGER (0 .. maxInt),
*       maxTimeMillis                   [0] INTEGER DEFAULT 0,
*       waitForMaxChanges               [1] BOOLEAN DEFAULT FALSE,
*       includeBase                     [2] SEQUENCE OF LDAPDN OPTIONAL,
*       excludeBase                     [3] SEQUENCE OF LDAPDN OPTIONAL,
*       changeTypes
                [4] SET OF ENUMERATED {
*           add         (0),
*           delete      (1),
*           modify      (2),
*           modifyDN    (3) } OPTIONAL,
*       continueOnMissingChanges        [5] BOOLEAN DEFAULT FALSE,
*       pareEntriesForUserDN            [6] LDAPDN OPTIONAL,
*       changeSelectionCriteria         [7] CHOICE {
*           anyAttributes           [1] SEQUENCE OF LDAPString,
*           allAttributes           [2] SEQUENCE OF LDAPString,
*           ignoreAttributes        [3] SEQUENCE {
*               ignoreAttributes            SEQUENCE OF LDAPString
*               ignoreOperationalAttributes BOOLEAN,
*               ... },
*           notificationDestination [4] OCTET STRING,
*           ... } OPTIONAL,
*       includeSoftDeletedEntryMods     [8] BOOLEAN DEFAULT FALSE,
*       includeSoftDeletedEntryDeletes  [9] BOOLEAN DEFAULT FALSE,
*
 ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the get changelog batch to
* iterate across all entries in the changelog.  It will operate in an infinite
```

```
* loop, starting at the beginning of the changelog and then reading 1000
* entries at a time until all entries have been read.  Once the end of the
* changelog has been reached, it will continue looking for changes, waiting for
* up to 5 seconds for new changes to arrive.
* <PRE>
* ChangelogBatchStartingPoint startingPoint =
*      new BeginningOfChangelogStartingPoint();
* while (true)
* {
*   GetChangelogBatchExtendedRequest request =
*        new GetChangelogBatchExtendedRequest(startingPoint, 1000, 5000L);
*
*   GetChangelogBatchExtendedResult result =
*        (GetChangelogBatchExtendedResult)
*        connection.processExtendedOperation(request);
*   List&lt;ChangelogEntryIntermediateResponse&gt; changelogEntries =
*        result.getChangelogEntries();
*
*   startingPoint
 = new ResumeWithTokenStartingPoint(result.getResumeToken());
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetChangelogBatchExtendedRequest.java
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```

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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class provides a command-line tool that can be used to list LDAP result
* code names and their numeric values, or to search for result codes that match
* a given name or value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPResultCode.java
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*/
/**
* This class defines a monitor entry that provides information about the disk
* space usage of the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable
 or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server should present at most one disk space usage monitor entry.  It
* can be retrieved using the
* {@link MonitorManager#getDiskSpaceUsageMonitorEntry} method.  The
* {@link DiskSpaceUsageMonitorEntry#getDiskSpaceInfo} method may be used
* to retrieve information about the components which may consume significant
* amounts of disk space, and the
* {@link DiskSpaceUsageMonitorEntry#getCurrentState} method may be used to
```

```
* obtain the current state of the server.  Alternately, this information may be
* accessed using the generic API.  See the {@link MonitorManager} class
* documentation for an example that demonstrates the use of the generic API for
* accessing monitor data.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/DiskSpaceUsageMonitorEntry.java

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*/
/**
```

```
* This class provides an implementation of the end batched transaction extended
* request.  It may be used to either commit or abort a transaction that was
* created using the start batched transaction request.  See the documentation
* for the {@link StartBatchedTransactionExtendedRequest} for an example of
* processing a batched transaction.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndBatchedTransactionExtendedRequest.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an extended
* request forwarded to a backend server.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/ExtendedForwardAccessLogMessage.java
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*/
/**
* This class provides an implementation of an LDAP control that may be included
* in a bind response to provide information about the authenticated and/or
* authorized user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The value of this control will be encoded as follows:
* <PRE>
*   GetAuthorizationEntryResponse ::= SEQUENCE {
*     isAuthenticated     [0] BOOLEAN,
*     identitiesMatch     [1] BOOLEAN,
*     authNEntry          [2] AuthEntry OPTIONAL,
*     authZEntry          [3] AuthEntry OPTIONAL }
*
*   AuthEntry ::= SEQUENCE {
*     authID         [0] AuthzId OPTIONAL,
*     authDN         [1] LDAPDN,
```

```
*     attributes     [2] PartialAttributeList }
* </PRE>
* <BR><BR>
* See the documentation for the {@link GetAuthorizationEntryRequestControl}
* class for more information and an example demonstrating the use of these
* controls.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetAuthorizationEntryResponseControl.java
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```

```
*/
/**
* This class defines a Directory Server task that can be used to safely remove
* an object class from the server schema.  It will make sure that the object
* class is not in use in the server before removing it.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The name or OID of the object class to remove from the server
*       schema.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/RemoveObjectClassTask.java

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*/
/**
* This class provides a utility that may be used to move a single entry or a
* small subtree of entries from one server to another.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

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*/
/**
* This class defines a monitor entry that provides information about the sate
* of a FIFO entry cache in the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered
 stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information that may be available about the entry cache includes:
* <UL>
*   <LI>The name assigned to the cache.</LI>
*   <LI>The number of attempts (successful and total) and the hit ratio when
*       trying to retrieve an entry from the cache.</LI>
*   <LI>The maximum allowed size of the entry cache in entries and bytes.</LI>
*   <LI>The number of entries currently held in the cache.</LI>
*   <LI>The number of entries added to or updated in the cache.</LI>
```

```
*   <LI>The number of times an entry was not added to the cache because it was
*       already present.</LI>
*   <LI>The number of times an entry was not added to the cache because it did
*       not match filter criteria required for inclusion.</LI>
*   <LI>The number of times an entry was not added to the cache because it was
*       too small to be included.</LI>
 *   <LI>The number of times an entry was evicted because of memory pressure or
*       to make room for new entries.</LI>
*   <LI>Information about the current memory consumption of the cache and
*       whether the cache is currently full.</LI>
* </UL>
* The server will automatically present one monitor entry for every FIFO entry
* cache defined in the server.  It is possible to have multiple caches enabled
* if desired (e.g., one specifically targeting large static groups, and another
* small cache to help improve write-after-read performance).  FIFO entry cache
* monitor entries can be retrieved using the
* {@link MonitorManager#getFIFOEntryCacheMonitorEntries} method.  These monitor
* entries provide specific methods for accessing information about the FIFO
* entry cache.  Alternately, this information may be accessed using the generic
* API.  See the {@link MonitorManager} class documentation for an example that
* demonstrates the use of the generic API for accessing
 monitor data.
*/
```

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*/
/**
* This class provides a utility that may be used to register a YubiKey OTP
* device for a specified user so that it may be used to authenticate that user.
* Alternately, it may be used to deregister one or all of the YubiKey OTP
* devices that have been registered for the user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a request control which may be used to request that the
* server return resource limit information for the authenticated user in the
* response to a successful bind operation.  Resource limits that may be
* returned include custom size limit, time limit, idle time limit, lookthrough
* limit, equivalent authorization user DN, client connection policy name, and
* privilege names.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code true} or {@code false}.
* It may optionally have a value, although it should only have a value if the
```

```
* server advertises OID "1.3.6.1.4.1.30221.2.12.6"
* ({@link #EXCLUDE_GROUPS_FEATURE_OID}) in the supportedFeatures attribute of
* its root DSE.  The {@link #serverAdvertisesExcludeGroupsFeature} method can
* help clients make that determination.
* <BR><BR>
* If the control does have a value, then it should use the following encoding:
* <PRE>
*   GetUserResourceLimitsRequest ::= SEQUENCE {
*        excludeGroups
     [0] BOOLEAN DEFAULT FALSE,
*        ... }
* </PRE>
* <BR><BR>
* If the control does not have a value, then the server will assume the default
* behavior for all elements that would be in the value.
*
* @see GetUserResourceLimitsResponseControl
*/
```

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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at the first change available
* in the changelogs of all servers in the replication topology.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/BeginningOfChangelogStartingPoint.java
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*/
/**
* This class contains a data structure which provides information about the
* value of an LDAP join request control, which may or may not include a nested
* join.  See the class-level documentation for the {@link JoinRequestControl}
* class for additional information and an example demonstrating its use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The value of the join request control is encoded as follows:
* <PRE>
*   LDAPJoin ::= SEQUENCE {
*       joinRule        JoinRule,
*       baseObject      CHOICE {
*           useSearchBaseDN     [0] NULL,
*           useSourceEntryDN    [1] NULL,
*           useCustomBaseDN     [2] LDAPDN,
*           ... },
*       scope           [0] ENUMERATED {
```

```
*            baseObject            (0),
*            singleLevel           (1),
*            wholeSubtree          (2),
*            subordinateSubtree    (3),
*            ... } OPTIONAL,
*       derefAliases     [1] ENUMERATED {
*            neverDerefAliases     (0),
 *           derefInSearching      (1),
*            derefFindingBaseObj   (2),
*            derefAlways           (3),
*            ... } OPTIONAL,
*       sizeLimit       [2] INTEGER (0 .. maxInt) OPTIONAL,
*       filter          [3] Filter OPTIONAL,
*       attributes      [4] AttributeSelection OPTIONAL,
*       requireMatch    [5] BOOLEAN DEFAULT FALSE,
*       nestedJoin      [6] LDAPJoin OPTIONAL,
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinRequestValue.java
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*/
/**
* This class provides a request control which may be included in a delete
* request to indicate that the server should completely remove the target
* entry, even if it would otherwise process the operation as a soft delete and
* merely hide the entry from most clients.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code TRUE} or {@code FALSE},
* but this will only impact how the delete request is to be handled by servers
* which do not support this control.  A criticality of {@code TRUE} will cause
* any server which does not support this control to reject the request, while
* a criticality of {@code FALSE} should cause the delete request to be
* processed as if the control had not been included (i.e., as a regular "hard"
* delete).
* <BR><BR>
* The control may optionally have a value.  If a value is provided, then it
* must be the encoded representation of an empty ASN.1 sequence, like:
* <PRE>
*   HardDeleteRequestValue ::= SEQUENCE {
*     ... }
 * </PRE>
* In the future, the value sequence may allow one or more elements to customize
* the behavior of the hard delete operation, but at present no such elements
* are defined.
* See the documentation for the {@link SoftDeleteRequestControl} class for an
* example demonstrating the use of this control.
```

```
*
* @see  SoftDeleteRequestControl
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/HardDeleteRequestControl.java
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*/
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/FilterArgument.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/AcceptAllSimpleMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ObjectPair.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/DebugType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/DNArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/KeyStoreKeyManager.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/parallel/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/TrustStoreTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/TelephoneNumberMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/parallel/Result.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncCompareHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFWriterEntryTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/SequentialValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/parallel/AsynchronousParallelProcessor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Debug.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncHelper.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/LDAPSearch.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/StringArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/LDAPModify.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/EntryValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/parallel/ParallelProcessor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/FileArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/HTTPValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/RoundRobinServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/PKCS11KeyManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/MatchedValuesRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncSearchResultListener.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/PromptTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/ValidateLDIF.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ByteStringBuffer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/FileValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncCompareResultListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/parallel/ResultProcessor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncSearchHelper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncResultListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/NumericStringMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ReadOnlyEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/CaseExactStringMatchingRule.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/RandomValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/LDAPCommandLineTool.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/InternalUseOnly.java
* /unboundid-ldapsdk-6-0-3-sources-1-

jar/com/unboundid/ldap/matchingrules/DistinguishedNameMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Long.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFRecord.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ByteStringFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/ModRateThread.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/LDAPSDKException.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ByteString.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ValuePattern.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SingleServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/SimpleMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/extensions/NoticeOfDisconnectionExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/LDAPCompare.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/BooleanMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/SearchRateThread.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/WrapperKeyManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ArgumentParser.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/Argument.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/GeneralizedTimeMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Writer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/OctetStringMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/MatchedValuesFilter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/IntegerArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/IntegerMatchingRule.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/FailoverServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ArgumentException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AsyncRequestID.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFReaderEntryTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/SubentriesRequestControl.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/SSLUtil.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/TrustAllTrustManager.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/CommandLineTool.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/parallel/Processor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/StringValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/BackReferenceValuePatternComponent.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/NullOutputStream.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/extensions/PasswordModifyExtendedRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/BooleanArgument.java
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*/
/**
* This class implements an extended result that may be returned in response to
* a {@link PurgeRetiredInterServerCertificatesExtendedRequest}.  See the
* {@link ReplaceCertificateExtendedResult} class for a description of the
* content for the result.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
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*/
/**
* This enum defines the set of access log operation types.
*
* <BLOCKQUOTE>

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
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*
 interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/AccessLogOperationType.java
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```

```
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*/
/**
* This class provides an implementation of the password policy response control
* as described in draft-behera-ldap-password-policy.  It may be used to provide
* information related to a user's password policy.  It may include at most one
* warning from the set of {@link PasswordPolicyWarningType} values and at most
* one error from the set of {@link PasswordPolicyErrorType} values.  See the
* documentation for those classes for more information on the information that
* may be included.  See the {@link
 PasswordPolicyRequestControl} documentation
* for an example that demonstrates the use of the password policy request and
* response controls.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The control has an OID of 1.3.6.1.4.1.42.2.27.8.5.1 and a criticality of
* false.  It must have a value with the following encoding:
* <PRE>
*   PasswordPolicyResponseValue ::= SEQUENCE {
*     warning [0] CHOICE {
*       timeBeforeExpiration [0] INTEGER (0 .. maxInt),
*       graceAuthNsRemaining [1] INTEGER
 (0 .. maxInt) } OPTIONAL,
*     error   [1] ENUMERATED {
*       passwordExpired           (0),
*       accountLocked             (1),
*       changeAfterReset          (2),
*       passwordModNotAllowed     (3),
*       mustSupplyOldPassword     (4),
*       insufficientPasswordQuality (5),
*       passwordTooShort          (6),
*       passwordTooYoung          (7),
*       passwordInHistory         (8) } OPTIONAL }
* </PRE>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordPolicyResponseControl.java
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*/
/**
* This class provides a request control that can be included in a modify
* request or a password modify extended request in order to indicate that if
* the operation results in changing the password for a user, the user's former
* password should be purged from the entry rather than retired, and any
* existing retired password should also be purged.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of "1.3.6.1.4.1.30221.2.5.32" and does not have a
* value.  The criticality may be either true (in which case the operation will
* succeed only if the user's password policy allows passwords to be retired by
* a request control) or false (in which case if the password policy does not
* allow the use of this control, the operation will be processed as if the
* control had not been included in the request).
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the purge password request
* control to request that a user's current password be purged in the course
 of
* a password change.
* <PRE>
* Control[] requestControls =
* {
*   new PurgePasswordRequestControl(true)
* };
*
* PasswordModifyExtendedRequest passwordModifyRequest =
*      new PasswordModifyExtendedRequest(
*           "uid=test.user,ou=People,dc=example,dc=com", // The user to update
*           null, // The current password -- we don't know it.
*           "newPassword", // The new password to assign to the user.
*           requestControls); // The controls to include in the request.
* PasswordModifyExtendedResult passwordModifyResult =
*      (PasswordModifyExtendedResult)
*      connection.processExtendedOperation(passwordModifyRequest);
* </PRE>
*
* @see  RetirePasswordRequestControl
*/
```

Found in path(s):

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/PurgePasswordRequestControl.java

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*/
/**
* This class provides an implementation of an intermediate response that can
* provide the client with output from the collect-support-data tool in
* response to a {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*
 for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
```

```
* </BLOCKQUOTE>
* <BR>
* The collect support data output intermediate response has an OID of
* 1.3.6.1.4.1.30221.2.6.65 and a value with the following encoding:
* <BR>
* <PRE>
*   CollectSupportDataOutputIntermediateResponse ::= SEQUENCE {
*     outputStream      [0] ENUMERATED {
*          standardOutput     (0),
*          standardError      (1),
*          ... },
*     outputMessage     [1] OCTET STRING,
*     ... }
* </PRE>
*
* @see  CollectSupportDataExtendedRequest
* @see  CollectSupportDataExtendedResult
* @see  CollectSupportDataArchiveFragmentIntermediateResponse
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataOutputIntermediateResponse.java
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*/
/**
* This class implements a data structure for storing the information from an
* extended result for the start batched transaction extended request.  It is
* able to decode a generic extended result to extract the transaction ID that
* it contains, if the operation was successful.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* See the documentation for the {@link StartBatchedTransactionExtendedRequest}
* class for an example that demonstrates the use of batched transactions.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartBatchedTransactionExtendedResult.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a bind
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/BindForwardFailedAccessLogMessage.java
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an extended
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ExtendedRequestAccessLogMessage.java
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*/
```

```
/**
* This class provides a command-line tool that can be used to split an LDIF
* file below a specified base DN.  This can be used to help initialize an
* entry-balancing deployment for use with the Directory Proxy Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* It supports a number of algorithms for determining how to split the data,
* including:
* <UL>
*   <LI>
*     split-using-hash-on-rdn -- The tool will compute a digest of the DN
*     component that is immediately below the split base DN, and will use a
*     modulus to select a backend set for a given entry.  Since the split is
*     based purely on computation involving the DN, the there is no need for
*     caching to ensure that children are placed in the same sets as their
*     parent, which allows it to run effectively with a small memory footprint.
*   </LI>
*   <LI>
*     split-using-hash-on-attribute -- The tool will compute a digest of the
*     value(s) of a specified attribute, and will use a modulus to select a
*     backend
 set for a given entry.  This hash will only be computed for
*     entries immediately below the split base DN, and a cache will be used to
*     ensure that entries more than one level below the split base DN are
*     placed in the same backend set as their parent.
*   </LI>
*   <LI>
*     split-using-fewest-entries -- When examining an entry immediately below
*     the split base DN, the tool will place that entry in the set that has the
*     fewest entries.  For flat DITs in which entries only exist one level
*     below the split base DN, this will effectively ensure a round-robin
*     distribution.  But for cases in which there are branches of varying sizes
*     below the split base DN, this can help ensure that entries are more
*     evenly distributed across backend sets.  A cache will be used to ensure
*     that entries more than one level below the split base DN are placed in
*     the same backend set as their parent.
*   </LI>
*   <LI>
```

```
*     split-using-filter
 -- When examining an entry immediately below the split
*     base DN, a series of filters will be evaluated against that entry, which
*     each filter associated with a specific backend set.  If an entry doesn't
*     match any of the provided filters, an RDN hash can be used to select the
*     set.  A cache will be used to ensure that entries more than one level
*     below the split base DN are placed in the same backend set as their
*     parent.
*   </LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIF.java
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*/
/**
* This class provides a response control that may be used to convey the
* password (and other associated information) generated in response to a
* {@link GeneratePasswordRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
* <BR>
* This control has an OID of "1.3.6.1.4.1.30221.2.5.59", a criticality of
* false, and a value with the following encoding:
* <PRE>
*   GeneratePasswordResponse ::= SEQUENCE {
*        generatedPassword          OCTET STRING,
*        mustChangePassword         BOOLEAN,
*        secondsUntilExpiration     [0] INTEGER OPTIONAL,
*        ... }
* </PRE>
*
* @see  GeneratePasswordRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GeneratePasswordResponseControl.java
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*/
/**
* This class defines a monitor entry that provides general information about
* the Directory Server version.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or
 mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Information that it may make available includes:
* <UL>
*   <LI>The full Directory Server version string, which may contain
*       spaces.</LI>
*   <LI>The compact Directory Server version string, which will not contain
*       any spaces and may use a more compact representation than the full
*       version string.</LI>
```

```
*   <LI>The Directory Server product name.</LI>
*   <LI>A compact representation of the Directory Server product name.</LI>
*   <LI>The server major version number.</LI>
*   <LI>The server minor version number.</LI>
*   <LI>The server point version number.</LI>
*   <LI>A version qualifier string which may provide a more descriptive name
*       for the build of the server.</LI>
*   <LI>The server build ID string.</LI>
*   <LI>The server promoted build number.</LI>
*   <LI>The source control revision number for the source used
 to build the
*       server.</LI>
*   <LI>A list of the bugfix IDs for any special fixes included in the
*       server.</LI>
* </UL>
* The server should present at most one version monitor entry.  It can be
* retrieved using the {@link MonitorManager#getVersionMonitorEntry} method.
* This entry provides specific methods for accessing this version information
* (e.g., the {@link VersionMonitorEntry#getFullVersion} method can be used to
* retrieve the full version string for the server).  Alternately, this
* information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
/**
  * The name of the attribute used to hold the server SNMP4J agent library
  * version.
  */
```

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*/
/**
* This class provides information about the types of alert severities that may
* be included in alert entries.
* <BR>
* <BLOCKQUOTE>
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/**
* This class provides an implementation of the end interactive transaction
* extended request.  It may be used to either commit or abort a transaction
* that was created using the start interactive transaction request.  See the
* documentation in the {@link StartInteractiveTransactionExtendedRequest} for
* an example of processing an interactive transaction.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure,
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
```

```
* @deprecated  The use of interactive transactions is strongly discouraged
*              because it can create conditions which are prone to deadlocks
*              between operations that may significantly affect performance and
*              will result in the cancellation of one or both operations.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndInteractiveTransactionExtendedRequest.java
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*/
/**
```

```
* This class defines a monitor entry that provides information about the memory
* usage for the JVM in which the Directory Server is running.  In particular,
* it reports information about the memory pools and garbage collectors defined
* in the JVM.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information that may be available in the memory usage monitor entry
* includes:
* <UL>
*   <LI>The names of the memory pools that are in use within the JVM.</LI>
*   <LI>The number of bytes currently used within each memory pool.</LI>
*   <LI>The number of bytes used within each memory pool after the last
*       garbage collection.</LI>
*   <LI>The names of the garbage collectors that are in use within the
*       JVM.</LI>
*   <LI>The number of garbage collections performed by each collector.</LI>
*   <LI>The total duration of all garbage collections performed by each
*       collector.</LI>
*   <LI>The average duration of garbage collections performed by each
*       collector.</LI>
*   <LI>The
 duration of the most recent garbage collection performed by each
*       collector.</LI>
*   <LI>The amount of non-heap memory consumed by the JVM.</LI>
*   <LI>The number of detected pauses of various durations detected by the
*       server.</LI>
*   <LI>The duration of the longest pause detected by the server.</LI>
* </UL>
* The server should present at most one memory usage monitor entry.  It can be
* retrieved using the {@link MonitorManager#getMemoryUsageMonitorEntry} method.
* This entry provides specific methods for accessing information about JVM
* memory usage (e.g., the {@link MemoryUsageMonitorEntry#getMemoryPoolNames}
* method can be used to retrieve the names of the memory pool).  Alternately,
* this information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

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*/
/**
* This class provides an implementation of an LDAP control that can be used to
* request that the Directory Server ignore the NO-USER-MODIFICATION flag for
* attribute types.  It may be included in an add request to allow the client to
* include attributes which are not normally allowed to be externally specified
* (e.g., entryUUID, creatorsName, modifiersName, etc.).  This control does not
* have a value, and there is no corresponding response control.
```

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class,
 and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* <H2>Example</H2>
* The following example demonstrates the process for attempting to perform an
* add operation including the ignore NO-USER-MODIFICATION control so that an
* entry can be added which already includes the creatorsName and
* createTimestamp attributes:
* <PRE>
* AddRequest addRequest = new AddRequest("dc=example,dc=com",
*      new Attribute("objectClass", "top", "domain"),
*      new Attribute("dc", "example"),
*      new Attribute("creatorsName", "cn=Admin User DN"),
*      new Attribute("createTimestamp",
 "20080101000000Z"));
* addRequest.addControl(new IgnoreNoUserModificationRequestControl());
*
* try
* {
*   LDAPResult result = connection.add(addRequest);
*   // The entry was added successfully.
* }
* catch (LDAPException le)
* {
*   // The attempt to add the entry failed.
* }
* </PRE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/IgnoreNoUserModificationRequestControl.java
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*/
/**
* This class provides a tool that can be used to perform repeated modifications
* in an LDAP directory server using multiple threads.  It can help provide an
* estimate of the modify performance that a directory server is able to
* achieve.  The target entry DN may be a value pattern as described in the
* {@link ValuePattern} class.  This makes it possible to modify a range of
* entries rather than repeatedly updating the same entry.
* <BR><BR>
* Some of the APIs demonstrated by this example include:
 * <UL>
*   <LI>Argument Parsing (from the {@code com.unboundid.util.args}
*       package)</LI>
*   <LI>LDAP Command-Line Tool (from the {@code com.unboundid.util}
*       package)</LI>
*   <LI>LDAP Communication (from the {@code com.unboundid.ldap.sdk}
*       package)</LI>
*   <LI>Value Patterns (from the {@code com.unboundid.util} package)</LI>
```

```
* </UL>
* <BR><BR>
* All of the necessary information is provided using command line arguments.
* Supported arguments include those allowed by the {@link LDAPCommandLineTool}
* class, as well as the following additional arguments:
* <UL>
*   <LI>"-b {entryDN}" or "--targetDN {baseDN}" -- specifies the DN of the
*       entry to be modified.  This must be provided.  It may be a simple DN,
*       or it may be a value pattern to express a range of entry DNs.</LI>
*   <LI>"-A {name}" or "--attribute {name}" -- specifies the name of the
*       attribute to modify.  Multiple attributes may be modified by providing
*       multiple
 instances of this argument.  At least one attribute must be
*       provided.</LI>
*   <LI>"--valuePattern {pattern}" -- specifies the pattern to use to generate
*       the value to use for each modification.  If this argument is provided,
*       then neither the "--valueLength" nor "--characterSet" arguments may be
*       given.</LI>
*   <LI>"-l {num}" or "--valueLength {num}" -- specifies the length in bytes to
*       use for the values of the target attributes.  If this is not provided,
*       then a default length of 10 bytes will be used.</LI>
*   <LI>"-C {chars}" or "--characterSet {chars}" -- specifies the set of
*       characters that will be used to generate the values to use for the
*       target attributes.  It should only include ASCII characters.  Values
*       will be generated from randomly-selected characters from this set.  If
*       this is not provided, then a default set of lowercase alphabetic
*       characters will be used.</LI>
*   <LI>"-t
 {num}" or "--numThreads {num}" -- specifies the number of
*       concurrent threads to use when performing the modifications.  If this
*       is not provided, then a default of one thread will be used.</LI>
*   <LI>"-i {sec}" or "--intervalDuration {sec}" -- specifies the length of
*       time in seconds between lines out output.  If this is not provided,
*       then a default interval duration of five seconds will be used.</LI>
*   <LI>"-I {num}" or "--numIntervals {num}" -- specifies the maximum number of
*       intervals for which to run.  If this is not provided, then it will
*       run forever.</LI>
*   <LI>"--iterationsBeforeReconnect {num}" -- specifies the number of modify
*       iterations that should be performed on a connection before that
*       connection is closed and replaced with a newly-established (and
*       authenticated, if appropriate) connection.</LI>
*   <LI>"-r {modifies-per-second}" or "--ratePerSecond {modifies-per-second}"
*
  -- specifies the target number of modifies to perform per second.  It
*       is still necessary to specify a sufficient number of threads for
*       achieving this rate.  If this option is not provided, then the tool
*       will run at the maximum rate for the specified number of threads.</LI>
*   <LI>"--variableRateData {path}" -- specifies the path to a file containing
```

```
*       information needed to allow the tool to vary the target rate over time.
*       If this option is not provided, then the tool will either use a fixed
*       target rate as specified by the "--ratePerSecond" argument, or it will
*       run at the maximum rate.</LI>
*   <LI>"--generateSampleRateFile {path}" -- specifies the path to a file to
*       which sample data will be written illustrating and describing the
*       format of the file expected to be used in conjunction with the
*       "--variableRateData" argument.</LI>
*   <LI>"--warmUpIntervals {num}" -- specifies the number of intervals
 to
*       complete before beginning overall statistics collection.</LI>
*   <LI>"--timestampFormat {format}" -- specifies the format to use for
*       timestamps included before each output line.  The format may be one of
*       "none" (for no timestamps), "with-date" (to include both the date and
*       the time), or "without-date" (to include only time time).</LI>
*   <LI>"-Y {authzID}" or "--proxyAs {authzID}" -- Use the proxied
*       authorization v2 control to request that the operation be processed
*       using an alternate authorization identity.  In this case, the bind DN
*       should be that of a user that has permission to use this control.  The
*       authorization identity may be a value pattern.</LI>
*   <LI>"--suppressErrorResultCodes" -- Indicates that information about the
*       result codes for failed operations should not be displayed.</LI>
*   <LI>"-c" or "--csv" -- Generate output in CSV format rather than a
*       display-friendly format.</LI>
 * </UL>
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/ModRate.java
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*/
/**
* This class provides an implementation of an extended result that can be used
* to retrieve a version of the server configuration.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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  considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended result is 1.3.6.1.4.1.30221.2.6.29.  If the request
* was processed successfully, then the response will have a value with the
* following encoding:
* <PRE>
*   GetConfigurationResult ::= SEQUENCE {
*       configurationType        [0] ENUMERATED {
*           active       (0),
*           baseline     (1),
*           archived     (2),
*           ... },
*       fileName                 [1] OCTET STRING,
*       configurationFileData    [2] OCTET STRING,
*       ... }
* </PRE>
```

*
* @see GetConfigurationExtendedRequest
* @see ListConfigurationsExtendedRequest
*/

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*/
/**
* This class provides a data structure which may be used to indicate the base

```
* DN to use for a join request.  See the class-level documentation for the
* {@link JoinRequestControl} class for additional information and an example
* demonstrating its use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This enum defines the set of response types that can be used in the
* password validation details response control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This enum defines the set of multiple attribute behavior values that may be
* used in conjunction with the {@link UniquenessRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class defines a Directory Server task that can be used to trigger the
* rotation of one or more log files.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable
 or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The path to the log file to be rotated.  It may be either an absolute
*       path or a path that is relative to the server root.  Multiple log files
*       may be targeted by specifying multiple paths, and if no paths are given
*       then the server will rotate all log files.</LI>
* </UL>
```

```
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/RotateLogTask.java
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*/
/**
* This enum defines the set of result code values that may be included in a
* an assured replication server result.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

```
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/AssuredReplicationServerResultCode.java
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*
```

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*/
/**
* This class provides an implementation of a response control that can be
* included in the response to a successful bind operation to provide
* information about recent successful and failed authentication attempts.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 *   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.62, a criticality of
* {@code false}, and a value that is a JSON object with two top-level fields:
* successful-attempts and failed-attempts.  The value for each of these fields
* will be an array of JSON objects with the following fields:
* <UL>
*   <LI>timestamp -- The timestamp of the login attempt in the ISO 8601 format
*       described in RFC 3339.</LI>
*   <LI>client-ip-address -- A string representation of the IP address of the
*       client that tried to authenticate.</LI>
*   <LI>authentication-method -- The name of the method that the client used
*       when trying to authenticate.</LI>
*   <LI>failure-reason -- A string providing a general reason that the
*       authentication
 attempt failed (only used for failed attempts).</LI>
*   <LI>additional-attempt-count -- An integer value that indicates how many
*       other attempts were made on the same date with the same settings for
*       all fields except the timestamp.</LI>
* </UL>
*
* @see  GetRecentLoginHistoryRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetRecentLoginHistoryResponseControl.java
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*/
/**
* This class provides a data structure that holds information about an audit
* log message that represents a delete operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/DeleteAuditLogMessage.java
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*/
/**
* This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* selecting the first set for which the associated filter matches the entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

```
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIFFilterTranslator.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a compare
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/CompareForwardFailedAccessLogMessage.java
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*/
/**
* This class provides an implementation of the stream directory values extended
* request as used in the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server.  It may be used to obtain all entry DNs and/or all all
* values for one or more attributes for a specified portion of the DIT.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of "1.3.6.1.4.1.30221.2.6.6" and the value
* is encoded as follows:
* <PRE>
*   StreamDirectoryValuesRequest ::= SEQUENCE {
*       baseDN              [0] LDAPDN,
*       includeDNs          [1] DNSelection OPTIONAL,
*       attributes          [2] SEQUENCE OF LDAPString OPTIONAL,
*       valuesPerResponse   [3] INTEGER (1 .. 32767) OPTIONAL,
*       ... }
*
*   DNSelection ::= SEQUENCE {
*       scope       [0] ENUMERATED {
*           baseObject          (0),
*           singleLevel         (1),
*           wholeSubtree        (2),
*           subordinateSubtree  (3),
*
```

```
        ... }
*       relative     [1] BOOLEAN DEFAULT TRUE,
*       ..... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamDirectoryValuesExtendedRequest.java
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*/
/**
```

```
* This class provides a utility that may be used to request that the Directory
* Server deliver a one-time password to a user through some out-of-band
* mechanism.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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```

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/**
* This class defines an exception that may be thrown if a problem occurs while
* attempting to parse an audit log message.
* <BR>
* <BLOCKQUOTE>
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*/
/**
* This enum contains the set of possible attribute-level rights that may be
* described for an attribute in an entry retrieved with the get effective
* rights control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an abandon
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of replication assurance processing for a modify operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at a point where a previous
* batch ended.  The first change of the batch will be the change immediately
```

```
* after the change associated with the provided token.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ResumeWithTokenStartingPoint.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a bind operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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   for proprietary functionality or for external specifications that are not
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*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/BindResultAccessLogMessage.java
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*/
/**
* This class provides an implementation for a request control that can be
* included in an add, modify, or password modify request.  Its presence in one
* of those requests will indicate that the server should provide a response
* control with information about the password quality requirements that are in
* effect for the operation and information about whether the password included
* in the request satisfies each of those requirements.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes
 within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.30221.2.5.40, and it is
* recommended that the criticality be {@code false}.  It does not have a value.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordValidationDetailsRequestControl.java
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*/
/**
* This class provides information about the health check states that may be
* held by an LDAP external server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/HealthCheckState.java
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*/
/**
* This class provides an implementation of the get effective rights request
* control, which may be included in a search request to indicate that matching
* entries should include information about the rights a given user may have
* when interacting with that entry.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* When the get effective rights control is included in a search request, then
* each entry returned may include information about the rights that the
* specified user has for that entry in the {@code aclRights} operational
* attribute.  Note that because this is an operational attribute, it must be
* explicitly included in the set of attributes to return.
* <BR><BR>
* If the {@code aclRights} attribute is included in the entry, then it will be
* present with multiple sets of options.  In one case, it will have an option
* of "entryLevel", which provides information about the rights that the user
* has for the entry in general (see the {@link EntryRight} enum for a list of
* the entry-level rights
 that can be held).  In all other cases, it will have
* one option of "attributeLevel" and another option that is the name of the
* attribute for which the set of rights is granted (see the
* {@link AttributeRight} enum for a list of the attribute-level rights that can
* be held).  In either case, the value will be a comma-delimited list of
* right strings, where each right string is the name of the right followed by
* a colon and a one to indicate that the right is granted or zero to indicate
* that it is not granted.  The {@link EffectiveRightsEntry} class provides a
* simple means of accessing the information encoded in the values of the
* {@code aclRights} attribute.
* <BR><BR>
* This control was designed by Sun Microsystems, and it is not the same as the
* get effective rights control referenced in the draft-ietf-ldapext-acl-model
* Internet draft.  The value for this control should be encoded as follows:
* <BR><BR>
* <PRE>
* GET_EFFECTIVE_RIGHTS := SEQUENCE {
 *   authzID     authzID,
*   attributes  SEQUENCE OF AttributeType OPTIONAL }
* </PRE>
* <H2>Example</H2>
* The following example demonstrates the use of the get effective rights
* control to determine whether user "uid=admin,dc=example,dc=com" has the
* ability to change the password for the user with uid "john.doe":
* <PRE>
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe"),
```

```
*      "userPassword", "aclRights");
* searchRequest.addControl(new GetEffectiveRightsRequestControl(
*      "dn:uid=admin,dc=example,dc=com"));
* SearchResult searchResult = connection.search(searchRequest);
*
* for (SearchResultEntry entry : searchResult.getSearchEntries())
* {
*   EffectiveRightsEntry effectiveRightsEntry =
*        new EffectiveRightsEntry(entry);
*   if (effectiveRightsEntry.rightsInformationAvailable())
*   {
*     if (effectiveRightsEntry.hasAttributeRight(AttributeRight.WRITE,
 *          "userPassword"))
*     {
*       // The admin user has permission to change the target user's password.
*     }
*     else
*     {
*       // The admin user does not have permission to change the target user's
*       // password.
*     }
*   }
*   else
*   {
*     // No effective rights information was returned.
*   }
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetEffectiveRightsRequestControl.java
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*/
/**
* This class provides an implementation of an intermediate response that can
* provide the client with a portion of the support data archive generated in
* response to a {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The collect support data archive fragment intermediate response has an OID of
* 1.3.6.1.4.1.30221.2.6.66 and a value with the following encoding:
* <BR>
* <PRE>
*   CollectSupportDataArchiveDataIntermediateResponse ::= SEQUENCE {
*     archiveFileName          [0] OCTET STRING,
*     totalArchiveSizeBytes    [1] INTEGER,
*     moreDataToReturn         [2] BOOLEAN,
*     fragmentData             [3] OCTET STRING,
*     ... }
```

```
* </PRE>
*
* @see  CollectSupportDataExtendedRequest
* @see  CollectSupportDataExtendedResult
* @see  CollectSupportDataOutputIntermediateResponse
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataArchiveFragmentIntermediateResponse.java
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```

```
*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have at least one value for a specified
* field that is greater than a given value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in a "greater than" filter are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which to
*     make the determination.  This may be either a single string or an array
*     of strings as described in the "Targeting Fields in JSON Objects" section
*     of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
*   <LI>
*     {@code value} -- The value to use in the matching.  It must be either a
*     string (which will be compared against other strings using lexicographic
*     comparison) or a number.
*   </LI>
* </UL>
* The fields that may optionally be included in a "greater than" filter are:
* <UL>
*   <LI>
*     {@code allowEquals} -- Indicates whether to
 match JSON objects that have
*     a value for the specified field that matches the provided value.  If
*     present, this field must have a Boolean value of either {@code true} (to
*     indicate that it should be a "greater-than or equal to" filter) or
*     {@code false} (to indicate that it should be a strict "greater-than"
*     filter).  If this is not specified, then the default behavior will be to
*     perform a strict "greater-than" evaluation.
*   </LI>
*   <LI>
*     {@code matchAllElements} -- Indicates whether all elements of an array
*     must be greater than (or possibly equal to) the specified value.  If
*     present, this field must have a Boolean value of {@code true} (to
*     indicate that all elements of the array must match the criteria for this
```

```
*     filter) or {@code false} (to indicate that at least one element of the
*     array must match the criteria for this filter).  If this is not
*     specified, then the default behavior will be to
 require only at least
*     one matching element.  This field will be ignored for JSON objects in
*     which the specified field has a value that is not an array.
*   </LI>
*   <LI>
*     {@code caseSensitive} -- Indicates whether string values should be
*     treated in a case-sensitive manner.  If present, this field must have a
*     Boolean value of either {@code true} or {@code false}.  If it is not
*     provided, then a default value of {@code false} will be assumed so that
*     strings are treated in a case-insensitive manner.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of a "greater than" filter that will match any
* JSON object with a top-level field named "salary" with a value that is
* greater than or equal to 50000:
* <PRE>
*   { "filterType" : "greaterThan",
*     "field" : "salary",
*     "value" : 50000,
*     "allowEquals" : true }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   GreaterThanJSONObjectFilter
 filter =
*        new GreaterThanJSONObjectFilter("salary", 50000);
*   filter.setAllowEquals(true);
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/GreaterThanJSONObjectFilter.java
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*/
/**
* This class provides an implementation of an extended result that may be used
* to provide the client with a TOTP shared secret generated by the server in
* response to a {@link GenerateTOTPSharedSecretExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the extended request was processed successfully, then this result will
* have an OID of 1.3.6.1.4.1.30221.2.6.57 and a value with the following
* encoding:
* <BR><BR>
* <PRE>
```

```
*   GenerateTOTPSharedSecretResult ::= SEQUENCE {
*        totpSharedSecret     [0] OCTET STRING }
*        ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GenerateTOTPSharedSecretExtendedResult.java
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*/
/**
```

```
* This class implements a data structure for storing the information from an
* extended result for the get connection ID extended request.  It is able to
* decode a generic extended result to obtain the associated connection ID.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended result does not have an OID.  If the request was processed
* successfully by the server, then the response should have a value that is the
* BER-encoded integer representation of the connection ID.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConnectionIDExtendedResult.java

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*/
/**
* This class defines a set of properties that may be used when creating a
* {@link CollectSupportDataTask}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or
 mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/CollectSupportDataTaskProperties.java
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*/
/**
* This enum defines the set of operational update types that may be suppressed
* by the suppress operational attribute update request control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/SuppressType.java
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*/
/**
* This class defines a data structure for holding information about scheduled
* tasks as used by the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661
* Directory Server.  Subclasses will be used to provide additional
* functionality when dealing with certain types of tasks.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* All types of tasks can include the following information:
```

```
* <UL>
*   <LI>Task ID -- Uniquely identifies the task in the server.  It may be
*       omitted when scheduling a new task in order to have a task ID generated
*       for the task.</LI>
*   <LI>Task Class Name -- The fully-qualified name of the {@code Task}
*       subclass that provides the logic for the task.  This does not need to
*       be provided when creating a new task from one of the task-specific
*       subclasses.</LI>
*   <LI>Task State -- The current state of the task.  See the {@link TaskState}
*       enum for information about the possible states that a task may
*       have.</LI>
*   <LI>Scheduled
 Start Time -- The earliest time that the task should be
*       eligible to start.  It may be omitted when scheduling a new task in
*       order to use the current time.</LI>
*   <LI>Actual Start Time -- The time that server started processing the
*       task.</LI>
*   <LI>Actual Start Time -- The time that server completed processing for the
*       task.</LI>
*   <LI>Dependency IDs -- A list of task IDs for tasks that must complete
*       before this task may be considered eligible to start.</LI>
*   <LI>Failed Dependency Action -- Specifies how the server should treat this
*       task if any of the tasks on which it depends failed.  See the
*       {@link FailedDependencyAction} enum for the failed dependency action
*       values that may be used.</LI>
*   <LI>Notify on Completion -- A list of e-mail addresses for users that
*       should be notified when the task completes, regardless of whether it
*       was successful.</LI>
*   <LI>Notify On Error -- A list
 of e-mail addresses for users that should be
*       notified if the task fails.</LI>
*   <LI>Log Messages -- A list of the messages logged by the task while it was
*       running.</LI>
* </UL>
* Each of these elements can be retrieving using specific methods within this
* class (e.g., the {@link Task#getTaskID} method can be used to retrieve the
* task ID), but task properties (including those specific to the particular
* type to task) may also be accessed using a generic API.  For example, the
* {@link Task#getTaskPropertyValues} method retrieves a map that correlates the
* {@link TaskProperty} objects for the task with the values that have been set
* for those properties.  See the documentation for the {@link TaskManager}
* class for an example that demonstrates accessing task information using the
* generic API.
* <BR><BR>
* Also note that it is possible to create new tasks using information obtained
* from the generic API, but that is done on a per-class basis.
  For example, in
* order to create a new {@link BackupTask} instance using the generic API, you
```

```
* would use the {@link BackupTask#BackupTask(Map)} constructor, in which the
* provided map contains a mapping between the properties and their values for
* that task.  The {@link Task#getTaskSpecificProperties} method may be used to
* retrieve a list of the task-specific properties that may be provided when
* scheduling a task, and the {@link Task#getCommonTaskProperties} method may be
* used to retrieve a list of properties that can be provided when scheduling
* any type of task.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/Task.java
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```

```
*/
/**
* This class provides a data structure that can be used to represent a DN for
* use in the {@link LDAPDiff} tool in a form that is as compact as possible.
* The stored value will be the bytes that comprise the normalized
* representation of a DN, but with the common base DN stripped off, and with
* the RDNs in reverse order, which makes it fast to sort DNs lexicographically.
* For example, if the common base DN is "dc=example,dc=com", the compact
* representation of "uid=test.user,ou=People,dc=example,dc=com" would be
 the
* bytes of the string "ou=people,uid=test.user".
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDiffCompactDN.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class defines a Directory Server task that can be used to request that
* the server should dynamically reload all key and trust manager providers
* associated with all HTTP connection handlers configured with support for
* HTTPS.  Note that this may cause problems with a client's ability to resume a
* TLS session that was created before the reload.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The reload HTTP connection handler certificates task does not have any
* task-specific properties.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ReloadHTTPConnectionHandlerCertificatesTask.java
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*/
/**
* This class provides a response control that holds information about the
* soft-deleted entry that results from a soft delete request, and may also be
* included in a search result entry which represents a soft-deleted entry.  The
* value of this control will be the DN of the soft-deleted entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID,
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.21, a criticality of false,
```

```
* and a value that is simply the string representation of the new DN for the
* soft-deleted entry.
* <BR><BR>
* See the documentation for the {@link SoftDeleteRequestControl} class for an
* example demonstrating the use of this control.
*
* @see  SoftDeleteRequestControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/SoftDeleteResponseControl.java
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/**
* This class provides a data structure for representing search filters in a
* generic way.
* <BR>
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*   considered stable or mature enough to
 be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This includes:
* <UL>
*   <LI>Using a consistent order for AND and OR components.</LI>
*   <LI>Converting all attribute names to lowercase.</LI>
*   <LI>Replacing the assertion value with a "?" character for equality,
*       greater-or-equal, less-or-equal, approximate match, and extensible
*       match filters.</LI>
*   <LI>Replacing all subInitial, subAny, and subFinal elements with "?"
*       characters in substring filters.</LI>
* </UL>
*/
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a bind
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a modify DN operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/ObjectClassType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFModifyDNChangeRecord.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/RDN.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DisconnectType.java

*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ModificationType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/PreReadResponseControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/EntrySorter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SimpleBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPURL.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ReadOnlyModifyRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ModifyRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DeleteRequest.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Validator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/AssertionRequestControl.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/CRAMMD5BindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ModifyDNRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFWriter.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/SimplePagedResultsControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/CancelExtendedRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/UpdatableLDAPRequest.java
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 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/RootDSE.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/EXTERNALBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ExtendedRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SearchResultReference.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/Modification.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ManageDsaITRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/StartTLSExtendedRequest.java
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 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ServerSideSortRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnection.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Exception.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/VirtualListViewRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFChangeRecord.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/Attribute.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/package-info.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/SchemaElement.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/experimental/DraftBeheraLDAPPasswordPolicy10ErrorType.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ReadOnlyModifyDNRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SearchRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/AttributeTypeDefinition.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SearchResult.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/Control.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DereferencePolicy.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ControlHelper.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/SortKey.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Set.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/PasswordExpiringControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/PostReadRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SASLBindRequest.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ReadOnlyLDAPRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/AddRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/PersistentSearchChangeType.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DisconnectHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/WhoAmIExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Base64.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/PostReadResponseControl.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionReader.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/PasswordModifyExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ServerSideSortResponseControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/MatchingRuleUseDefinition.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Null.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DecodeableControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/SubtreeDeleteRequestControl.java
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*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have at least one value for a specified
```

```
* field that is less than a given value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary
 functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in a "less than" filter are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which to
*     make the determination.  This may be either a single string or an array
*     of strings as described in the "Targeting Fields in JSON Objects" section
*     of the class-level documentation for {@link JSONObjectFilter}.
*   </LI>
*   <LI>
*     {@code value} -- The value to use in the matching.  It must be either a
*     string (which will be compared against other strings using lexicographic
*     comparison) or a number.
*   </LI>
* </UL>
* The fields that may optionally be included in a "less than" filter are:
* <UL>
*   <LI>
*     {@code allowEquals} -- Indicates whether to match JSON
 objects that have
*     a value for the specified field that matches the provided value.  If
*     present, this field must have a Boolean value of either {@code true} (to
*     indicate that it should be a "less-than or equal to" filter) or
*     {@code false} (to indicate that it should be a strict "less-than"
*     filter).  If this is not specified, then the default behavior will be to
*     perform a strict "less-than" evaluation.
*   </LI>
*   <LI>
*     {@code matchAllElements} -- Indicates whether all elements of an array
*     must be less than (or possibly equal to) the specified value.  If
*     present, this field must have a Boolean value of {@code true} (to
*     indicate that all elements of the array must match the criteria for this
*     filter) or {@code false} (to indicate that at least one element of the
*     array must match the criteria for this filter).  If this is not
*     specified, then the default behavior will be to require only at least
```

```
 *     one matching element.  This field will be ignored for JSON objects in
*     which the specified field has a value that is not an array.
*   </LI>
*   <LI>
*     {@code caseSensitive} -- Indicates whether string values should be
*     treated in a case-sensitive manner.  If present, this field must have a
*     Boolean value of either {@code true} or {@code false}.  If it is not
*     provided, then a default value of {@code false} will be assumed so that
*     strings are treated in a case-insensitive manner.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of a "less than" filter that will match any
* JSON object with a top-level field named "loginFailureCount" with a value
* that is less than or equal to 3:
* <PRE>
*   { "filterType" : "lessThan",
*     "field" : "loginFailureCount",
*     "value" : 3,
*     "allowEquals" : true }
* </PRE>
* The above filter can be created with the code:
* <PRE>
*   LessThanJSONObjectFilter filter =
*
        new LessThanJSONObjectFilter("loginFailureCount", 3);
*   filter.setAllowEquals(true);
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/LessThanJSONObjectFilter.java
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*/
/**
* This class provides an implementation of the password policy state extended
* request as used in the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661
* Directory Server.  It may be used to retrieve and/or alter password policy
* properties for a user account.  See the documentation in the
* {@link PasswordPolicyStateOperation} class for information about the types of
* operations that can be performed.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code
 com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The extended request has an OID of 1.3.6.1.4.1.30221.1.6.1 and a value with
* the following encoding:
* <PRE>
*   PasswordPolicyStateValue ::= SEQUENCE {
*        targetUser     LDAPDN
*        operations     SEQUENCE OF PasswordPolicyStateOperation OPTIONAL }
```

```
*
*   PasswordPolicyStateOperation ::= SEQUENCE {
*       opType      ENUMERATED {
*           getPasswordPolicyDN                     (0),
*           getAccountDisabledState                 (1),
*           setAccountDisabledState                 (2),
*
    clearAccountDisabledState               (3),
*           getAccountExpirationTime                (4),
*           setAccountExpirationTime                (5),
*           clearAccountExpirationTime              (6),
*           getSecondsUntilAccountExpiration        (7),
*           getPasswordChangedTime                  (8),
*           setPasswordChangedTime                  (9),
*           clearPasswordChangedTime                (10),
*           getPasswordExpirationWarnedTime         (11),
*           setPasswordExpirationWarnedTime         (12),
*           clearPasswordExpirationWarnedTime       (13),
*           getSecondsUntilPasswordExpiration       (14),
*           getSecondsUntilPasswordExpirationWarning    (15),
*           getAuthenticationFailureTimes           (16),
*           addAuthenticationFailureTime            (17),
*           setAuthenticationFailureTimes
            (18),
*           clearAuthenticationFailureTimes         (19),
*           getSecondsUntilAuthenticationFailureUnlock  (20),
*           getRemainingAuthenticationFailureCount      (21),
*           getLastLoginTime                        (22),
*           setLastLoginTime                        (23),
*           clearLastLoginTime                      (24),
*           getSecondsUntilIdleLockout              (25),
*           getPasswordResetState                   (26),
*           setPasswordResetState                   (27),
*           clearPasswordResetState                 (28),
*           getSecondsUntilPasswordResetLockout     (29),
*           getGraceLoginUseTimes                   (30),
*           addGraceLoginUseTime                    (31),
*           setGraceLoginUseTimes                   (32),
*           clearGraceLoginUseTimes
                (33),
*           getRemainingGraceLoginCount             (34),
*           getPasswordChangedByRequiredTime        (35),
*           setPasswordChangedByRequiredTime        (36),
*           clearPasswordChangedByRequiredTime      (37),
*           getSecondsUntilRequiredChangeTime       (38),
*           getPasswordHistory                      (39), -- Deprecated
*           clearPasswordHistory                    (40),
*           hasRetiredPassword                      (41),
```

```
*          getPasswordRetiredTime                  (42),
*          getRetiredPasswordExpirationTime        (43),
*          purgeRetiredPassword                    (44),
*          getAccountActivationTime                (45),
*          setAccountActivationTime                (46),
*          clearAccountActivationTime              (47),
*          getSecondsUntilAccountActivation
           (48),
*          getLastLoginIPAddress                   (49),
*          setLastLoginIPAddress                   (50),
*          clearLastLoginIPAddress                 (51),
*          getAccountUsabilityNotices              (52),
*          getAccountUsabilityWarnings             (53),
*          getAccountUsabilityErrors               (54),
*          getAccountIsUsable                      (55),
*          getAccountIsNotYetActive                (56),
*          getAccountIsExpired                     (57),
*          getPasswordExpirationTime               (58),
*          getAccountIsFailureLocked               (59),
*          setAccountIsFailureLocked               (60),
*          getFailureLockoutTime                   (61),
*          getAccountIsIdleLocked                  (62),
*          getIdleLockoutTime
           (63),
*          getAccountIsResetLocked                 (64),
*          getResetLockoutTime                     (65),
*          getPasswordHistoryCount                 (66),
*          getPasswordIsExpired                    (67),
*          getAvailableSASLMechanisms              (68),
*          getAvailableOTPDeliveryMechanisms       (69),
*          getHasTOTPSharedSecret                  (70),
*          getRegisteredYubiKeyPublicIDs           (71),
*          addRegisteredYubiKeyPublicID            (72),
*          removeRegisteredYubiKeyPublicID         (73),
*          setRegisteredYubiKeyPublicIDs           (74),
*          clearRegisteredYubiKeyPublicIDs         (75),
*          addTOTPSharedSecret                     (76),
*          removeTOTPSharedSecret                  (77),
*          setTOTPSharedSecrets
       (78),
*          clearTOTPSharedSecrets                  (79),
*          hasRegisteredYubiKeyPublicID            (80),
*          hasStaticPassword                       (81),
*          getLastBindPasswordValidationTime       (82),
*          getSecondsSinceLastBindPasswordValidation  (83),
*          setLastBindPasswordValidationTime       (84),
*          clearLastBindPasswordValidationTime     (85),
*          getAccountIsValidationLocked            (86),
```

```
*            setAccountIsValidationLocked               (87),
*            getRecentLoginHistory                    (88),
*            clearRecentLoginHistory                   (89),
*            ... },
*     opValues     SEQUENCE OF OCTET STRING OPTIONAL }
* </PRE>
* <BR>
* <H2>Example</H2>
* The following example demonstrates the use of the password policy state
* extended operation to administratively disable a user's account:
*
 <PRE>
* PasswordPolicyStateOperation disableOp =
*      PasswordPolicyStateOperation.createSetAccountDisabledStateOperation(
*           true);
* PasswordPolicyStateExtendedRequest pwpStateRequest =
*      new PasswordPolicyStateExtendedRequest(
*              "uid=john.doe,ou=People,dc=example,dc=com", disableOp);
* PasswordPolicyStateExtendedResult pwpStateResult =
*      (PasswordPolicyStateExtendedResult)
*      connection.processExtendedOperation(pwpStateRequest);
*
* // NOTE:  The processExtendedOperation method will generally only throw an
* // exception if a problem occurs while trying to send the request or read
* // the response.  It will not throw an exception because of a non-success
* // response.
*
* if (pwpStateResult.getResultCode() == ResultCode.SUCCESS)
* {
*   boolean isDisabled = pwpStateResult.getBooleanValue(
*        PasswordPolicyStateOperation.OP_TYPE_GET_ACCOUNT_DISABLED_STATE);
*   if (isDisabled)
*   {
*     // The user account has been
 disabled.
*   }
*   else
*   {
*     // The user account is not disabled.
*   }
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateExtendedRequest.java

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*/
/**
* This class provides a data structure for representing information about a
* soft-deleted entry, which results from a soft delete operation that has
* caused the entry to be hidden so that it is not accessible to clients under
* normal circumstances, rather than causing the entry to be completely removed
* from the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
```

```
*   supported for use against
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*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* A soft-deleted entry will have its RDN altered to include the entryUUID for
* the original entry, will be updated to include the "ds-soft-delete-entry"
* auxiliary object class, and will have additional metadata attributes added to
* it which may include:
* <UL>
*   <LI>
*     ds-soft-delete-from-dn -- This specifies the DN assigned to the entry
*     before it was converted to a soft-deleted entry.
*   </LI>
*   <LI>
*     ds-soft-delete-timestamp -- This specifies the time that the entry was
*     converted to a soft-deleted entry.
*   </LI>
*   <LI>
*     ds-soft-delete-requester-dn -- This specifies the DN of the user who
 *     requested the soft delete operation.
*   </LI>
*   <LI>
*     ds-soft-delete-requester-ip-address -- This specifies the IP address of
*     the client that requested the soft delete operation.
*   </LI>
* </UL>
* <BR><BR>
* Soft-deleted entries may only be retrieved by users who have the
* soft-delete-read privilege, and then only by clients who issue a search
* request with one or more of the following characteristics:
* <UL>
*   <LI>
*     The search operation has a scope of baseObject and a base DN which
*     specifically targets a soft-deleted entry.
*   </LI>
*   <LI>
*     The search operation includes a filter with a component that will
*     specifically match entries that have the ds-soft-delete-entry object
*     class (e.g., "(objectClass=ds-soft-delete-entry)").
*   </LI>
*   <LI>
*     The search operation includes a
*     {@link SoftDeletedEntryAccessRequestControl}.
*   </LI>
```

* </UL>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/SoftDeletedEntry.java
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*/
/**
* This enum contains the set of possible entry-level rights that may be
* described in an entry retrieved with the get effective rights control.
*
* <BLOCKQUOTE>

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/EntryRight.java
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*/
/**
* This class provides an implementation of a control which can be used to
* request that the Directory Server include extended information when returning
* a subschema subentry.  In the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server, this will cause the server to
* include the X-SCHEMA-FILE extension (which contains the path to the file in
* which that schema element is defined) and the X-READ-ONLY extension (which
* indicates whether that schema element is read-only and cannot
 be altered by
* external clients).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control is not based on any public specification, and has been defined
* by Ping Identity Corporation  It does not have a value, and may or may not be
* critical.  It should only be included in search requests.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the procedure to use for requesting the
* Directory Server schema with extended information.  Note that the
* {@code LDAPInterface.getSchema}
 and {@code Schema.getSchema} convenience
* methods cannot be used because they do not allow you to include controls in
* the request.
* <PRE>
* String schemaDN = Schema.getSubschemaSubentryDN(connection, "");
* SearchRequest searchRequest = new SearchRequest(schemaDN, SearchScope.BASE,
*      Filter.createPresenceFilter("objectClass"), "*", "+");
* searchRequest.addControl(new ExtendedSchemaInfoRequestControl());
* SearchResult searchResult = connection.search(searchRequest);
*
* Schema schema = null;
* if (searchResult.getEntryCount() == 1)
* {
*   schema = new Schema(searchResult.getSearchEntries().get(0));
* }
* </PRE>
```

*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/ExtendedSchemaInfoRequestControl.java
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*/
/**
* This class provides an implementation of an extended result that can provide
* information about the requirements that the server will enforce for
* operations that change or replace a user's password, including adding a new
* user, a user changing his/her own password, and an administrator resetting

```
* another user's password.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for
 use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the get password quality request was processed successfully, then the
* result will include an OID of 1.3.6.1.4.1.30221.2.6.44 and a value with the
* following encoding:
* <PRE>
*   GetPasswordQualityRequirementsResultValue ::= SEQUENCE {
*       requirements              SEQUENCE OF PasswordQualityRequirement,
*       currentPasswordRequired   [0] BOOLEAN OPTIONAL,
*       mustChangePassword        [1] BOOLEAN OPTIONAL,
*       secondsUntilExpiration    [2] INTEGER OPTIONAL,
*       ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetPasswordQualityRequirementsExtendedResult.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class defines an exception that may be thrown while interacting with
* scheduled tasks.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
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```

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*/
/**
  * Processes a simple bind request with the provided DN and password using a
  * connection from this connection pool.  Note that this will impact the state
  * of the connection in the pool, and therefore this method should only be
  * used if this connection pool is used exclusively for processing bind
  * operations, or if the retain identity request control (a proprietary
  * control for use with the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
  * 8661 Directory Server) is included in the bind
 request to ensure that the
  * authentication state is not impacted.
  *
  * @param  bindDN    The bind DN for the bind operation.
  * @param  password  The password for the simple bind operation.
  *
  * @return  The result of processing the bind operation.
  *
  * @throws  LDAPException  If the server rejects the bind request, or if a
  *                         problem occurs while sending the request or reading
  *                         the response.
  */
/**
```

```
 * Processes the provided bind request using a connection from this connection
 * pool.  Note that this will impact the state of the connection in the pool,
 * and therefore this method should only be used if this connection pool is
 * used exclusively for processing bind operations, or if the retain identity
 * request control (a proprietary control for use with the Ping Identity,
 * UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server) is included in
 * the bind request to ensure that the authentication
state is not impacted.
 *
 * @param  bindRequest  The bind request to be processed.  It must not be
 *                      {@code null}.
 *
 * @return  The result of processing the bind operation.
 *
 * @throws  LDAPException  If the server rejects the bind request, or if a
 *                         problem occurs while sending the request or reading
 *                         the response.
 */
```

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*/
/**
* This class defines a monitor entry that provides general information about
* the client connections currently established. Note that the information
* available for each client connection may vary based on the type of connection
* handler with which that connection is associated.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The server should present at most one client connection monitor entry. It
* can be retrieved using the
* {@link MonitorManager#getClientConnectionMonitorEntry} method. The
* {@link ClientConnectionMonitorEntry#getConnections} method may be used to
* retrieve information for each connection. Alternately, this information may
* be accessed using the generic API. See the {@link MonitorManager} class
* documentation for an example that demonstrates the use of the generic API for
* accessing monitor data.
*/

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/**
* This package and its subordinate packages contain a set of classes which
* provide enhanced functionality for interacting with the Ping
* Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server products.
* These classes are not supported for use with any other type of directory
* server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against
 Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
*/
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of an add operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*
   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

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```

```
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*/
/**
* This class defines a monitor entry that provides summary information about
* a replicated data set within the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*
  considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server will present a replication summary monitor entry for each base DN
* for which replication is enabled, and it will include information about each
* replica and replication server processing changes for that base DN.
* Replication summary monitor entries can be retrieved using the
* {@link MonitorManager#getReplicationSummaryMonitorEntries} method.  The
* {@link #getBaseDN} method may be used to retrieve information about the
* replicated base DN, the {@link #getReplicationServers} method may be used to
* retrieve information about the replication servers for that base DN, and the
* {@link #getReplicas} method may be used to retrieve information about the
* replicas for that base DN.  Alternately, this information may be accessed
* using the generic API.  See the {@link MonitorManager} class documentation
* for an example
 that demonstrates the use of the generic API for accessing
* monitor data.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicationSummaryMonitorEntry.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an
* operation request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/OperationRequestAccessLogMessage.java

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*/
/**
* This class provides an implementation of the stream directory values
* intermediate response, which may be used to provide a partial or complete
* list of the values for a specified attribute, or DNs of entries contained in
* a specified portion of the server DIT.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This intermediate response has an OID
* of "1.3.6.1.4.1.30221.2.6.7" and the value is encoded as follows:
* <PRE>
*   StreamDirectoryValuesIntermediateResponse ::= SEQUENCE {
*        attributeName         [0] LDAPString OPTIONAL,
*        result                [1] ENUMERATED {
*             allValuesReturned       (0),
*             moreValuesToReturn      (1),
*             attributeNotIndexed     (2),
*             processingError         (3),
*             ... },
*        diagnosticMessage     [2] OCTET STRING OPTIONAL,
*        values                [3] SET OF OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamDirectoryValuesIntermediateResponse.java
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*/
/**
* This class defines a monitor entry that provides information about the
* operations currently being processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server should present at most one active operations monitor entry.  It
* can be retrieved using the
* {@link MonitorManager#getActiveOperationsMonitorEntry} method.  The
* {@link ActiveOperationsMonitorEntry#getActiveOperations} method may be used
* to retrieve information for each operation in progress.  Alternately, this
* information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of an extended operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

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*/
/**
* This class provides a search result listener that will be used to report
* information about search result entries and references returned for a search
* operation.
*

```
* <BLOCKQUOTE>
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/**
* This class provides an implementation of an LDAP command-line tool that may
* be used to change passwords in a directory server.  Three types of password
* changes are supported:  the password modify extended operation (as described
* in <A HREF="http://www.ietf.org/rfc/rfc3062.txt">RFC 3062</A>), a standard
* LDAP modify operation that targets an attribute like userPassword, or an
* Active Directory-specific password change that uses an LDAP modify operation
* to replace the value of the unicodePwd attribute
 with a value that is the
* password surrounded by quotation marks and encoded with UTF-16-LE.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**
* This class defines a monitor entry that provides information about the result
* codes returned from various types of operations.
* <BR>
* <BLOCKQUOTE>
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/**
* This class provides a utility that can be used to query and update the set of
* subtree accessibility restrictions defined in the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The APIs demonstrated by this example include:
* <UL>
*   <LI>The use of the get/set subtree accessibility extended operations</LI>
*   <LI>The LDAP command-line tool API.</LI>
*   <LI>Argument parsing.</LI>
* </UL>
```

*/

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*/
/**
* This class provides a data structure with information about a recent login
* attempt for a user.
*
* <BLOCKQUOTE>

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*
* @see  GetRecentLoginHistoryRequestControl
* @see  GetRecentLoginHistoryResponseControl
*/
```

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/**
* This class provides a {@link ReplaceCertificateTrustBehavior} implementation
* to indicate that the server should update a specified trust manager provider.
* <BR>
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*/
/**
* This enum defines the security level values that may be used in conjunction
* with the collect-support-data tool (and the corresponding administrative
* task and extended operation).
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/CollectSupportDataSecurityLevel.java
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*/
/**
* This enum defines a set of values that provide information about the result
* of validation processing that the server performed in response to a
* {@link UniquenessRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/UniquenessValidationResult.java
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*/
/**
* This class provides an extended result that may be used to obtain information
* about the results of processing a get changelog batch extended request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   considered stable or mature enough to be guaranteed to work in an
```

```
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The changelog batch result value is encoded as follows:
* <PRE>
*   ChangelogBatchResult ::= SEQUENCE {
*       resumeToken                 [0] OCTET STRING OPTIONAL,
*       moreChangesAvailable        [1] BOOLEAN,
*       changesAlreadyPurged        [2] BOOLEAN DEFAULT FALSE,
*       additionalInfo              [3] OCTET STRING OPTIONAL,
*       estimatedChangesRemaining   [4] INTEGER (0 .. MAXINT) OPTIONAL,
*       ... }
* </PRE>
* <BR><BR>
* See the documentation for the {@link GetChangelogBatchExtendedRequest} class
* for an example demonstrating its use.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetChangelogBatchExtendedResult.java
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*/
/**
* This class provides a data structure that contains information about a
* replication server contained in a replication summary monitor entry.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicationSummaryReplicationServer.java
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/**
* This class provides a mechanism that can be used to encrypt and decrypt
* passwords using the same mechanism that the Ping Identity Directory Server
* uses for the AES256 password storage scheme (for clients that know the
* passphrase used to generate the encryption key).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Note that this class requires strong encryption support in the underlying
* JVM.  For Java 7 JVMs, and for Java 8 JVMs prior to update 161, this requires
* installing unlimited strength jurisdiction policy files in the JVM.  For Java
* 8 JVMs starting with update 161, and for all later Java versions, strong
* encryption should be available by default.
* <BR><BR>
* The raw representation for encoded passwords is constructed as follows:
* <OL>
*   <LI>
*     A single byte that combines the encoding version and the padding length.
*     The least significant four bits represent a two's complement integer that
```

```
*     indicate the number of zero bytes that will be appended to the provided
 *    password to make it a multiple of sixteen bytes.  The most significant
*     four bits represent the encoding version.  At present, we only support a
*     single encoding version in which all of those bits must be set to zero.
*     With this encoding version, the following properties will be used:
*     <UL>
*       <LI>Cipher Transformation:  AES/GCM/NoPadding</LI>
*       <LI>Key Factory Algorithm:  PBKDF2WithHmacSHA512</LI>
*       <LI>Key Factory Iteration Count:  32,768</LI>
*       <LI>Key Factory Salt Length:  128 bits (16 bytes)</LI>
*       <LI>Key Factory Generated Key length:  256 bits (32 bytes)</LI>
*       <LI>Initialization Vector Length:  128 bits (16 bytes)</LI>
*       <LI>GCM Tag Length:  128 bits</LI>
*       <LI>Padding Modulus:  16</LI>
*     </UL>
*   </LI>
*   <LI>
*     Sixteen bytes of random data generated by a secure random number
*     generator.  This represents the salt provided to the key factory for the
*     purpose of generating
 the secret key.
*   </LI>
*   <LI>
*     Sixteen bytes of random data generated by a secure random number
*     generator.  This represents the initialization vector that will be used
*     to randomize the cipher output.
*   </LI>
*   <LI>
*     One byte that represents a two's complement integer that indicates the
*     number of bytes in the ID of the encryption settings definition whose
*     passphrase is used to generate the encryption key.  The value must be
*     less than or equal to 255.  For current versions of the Ping Identity
*     Directory Server, it will typically be 32 bytes.
*   </LI>
*   <LI>
*     The bytes that comprise the raw ID of the encryption settings definition
*     whose passphrase will be used to generate the encryption key.
*   </LI>
*   <LI>
*     The bytes that comprise the encrypted password using the above settings.
*   </LI>
* </OL>
* <BR>
* The string representation of the encoded password is generated by appending
*
 the base64-encoded representation of the raw encoded bytes to the prefix
* "{AES256}".
* <BR><BR>
```

```
* When encrypting a password using this algorithm, the first step is to
* generate the encryption key.  This is done using a key factory, which
* combines a passphrase (obtained from an encryption settings definition), an
* iteration count, and a salt.
* <BR><BR>
* The second step is to apply any necessary padding to the password.  Because
* AES used in Galois Counter mode (GCM) behaves as a stream cipher, the size of
* the encrypted data can be used to determine the size of the plaintext that
* was encrypted.  This is undesirable when encrypting passwords because it can
* let an attacker know how long the user's password is.  Padding the password
* (by appending enough zero bytes to make its length a multiple of sixteen
* bytes) makes it impossible for an attacker to determine the size of the
* clear-text password.
* <BR><BR>
* The final step is to perform the encryption.
  A cipher is created using the
* generated secret key and initialization vector, and it is used to encrypt the
* padded password.
* <BR><BR>
* Because this encoding uses reversible encryption rather than a one-way
* algorithm, there are two possible ways to verify that a provided plain-text
* password matches an encoded representation.  Both involve decoding the
* encoded representation of the password to extract the padding length, salt,
* initialization vector, and encryption settings definition ID.  Then, you can
* either encrypt the provided plaintext password with the same settings to
* verify that it yields the same encoded representation, or you can decrypt
* the encoded password and remove any padding to verify that it yields the same
* plaintext representation.
*/
```

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*/
/**
* This class defines a monitor entry that provides information about the state
* of the UnboundID work queue.  This has replaced the traditional work queue as
* the default work queue implementation used by the Directory Server
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* <BR>
* The monitor information that it may make available includes:
* <UL>
*   <LI>The number of requests that were rejected because the work queue was
*       already at its maximum capacity.</LI>
*   <LI>The number of operations currently held in the work queue waiting to be
*       picked for processing by a worker thread.</LI>
*   <LI>The average number of operations held in the work queue since startup
*       as observed from periodic polling.</LI>
*   <LI>The maximum number of operations held in the work queue at any time
*       since startup as observed from periodic polling.</LI>
```

```
* </UL>
* The server should present at most one UnboundID work queue monitor entry.
* It can be retrieved using the
* {@link MonitorManager#getUnboundIDWorkQueueMonitorEntry}
 method.  This entry
* provides specific methods for accessing information about the state of
* the work queue (e.g., the
* {@link UnboundIDWorkQueueMonitorEntry#getCurrentSize} method may be used
* to retrieve the number of operations currently held in the work queue).
* Alternately, this information may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/UnboundIDWorkQueueMonitorEntry.java
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*/
/**
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have a field whose value is a JSON object
* that matches a provided JSON object filter, or a field whose value is an
* array that contains at least one JSON object that matches the provided
* filter.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "object matches" filter
* are:
* <UL>
*   <LI>
*     {@code field} -- A field path specifier for the JSON field for which to
*     make the determination.  This may be either a single string or an array
*     of strings as described in the "Targeting Fields in JSON Objects" section
*     of the class-level documentation for {@link JSONObjectFilter}.  The value
*     of the target field is expected to either be a JSON object or an array
*     that contains one or more JSON objects.
*   </LI>
*   <LI>
*     {@code filter} -- A JSON object that represents a valid JSON object
*     filter to match
 against any JSON object(s) in the value of the target
*     field.  Note that field name references in this filter should be
*     relative to the object in the value of the target field, not to the
*     other JSON object that contains that field.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of an "object matches" filter that will match
* any JSON object with a top-level field named "contact" whose value is a JSON
```

```
* object (or an array containing one or more JSON objects) with a "type" field
* with a value of "home" and a "email" field with any value:
* <PRE>
*   { "filterType" : "objectMatches",
*     "field" : "contact",
*     "filter" : {
*       "filterType" : "and",
*       "andFilters" : [
*         { "filterType" : "equals",
*           "field" : "type",
*           "value" : "home" },
*         { "filterType" : "containsField",
*           "field" : "email" } ] } }
* </PRE>
* The above filter can be created with the code:
* <PRE>
 *   ObjectMatchesJSONObjectFilter filter = new ObjectMatchesJSONObjectFilter(
*        "contact",
*        new ANDJSONObjectFilter(
*            new EqualsJSONObjectFilter("type", "home"),
*            new ContainsFieldJSONObjectFilter("email")));
* </PRE>
*/
```

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jar/com/unboundid/ldap/listener/interceptor/InMemoryOperationInterceptor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ThreadLocalRandom.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DIGESTMD5BindRequestProperties.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedIntermediateResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptedAddOperation.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSearchRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptedDeleteOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedAddResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/SSLSocketVerifier.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedExtendedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InterceptedModifyOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedModifyDNResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/DiscardAsyncListener.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionPoolHealthCheckResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedModifyRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/HostNameSSLSocketVerifier.java
* /unboundid-ldapsdk-6-0-3-sources-1-

jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedCompareRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptedOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptedSearchReference.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InterceptedSimpleBindOperation.java
*
/unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSearchResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InterceptedSASLBindOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSearchEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/RoundRobinDNSServerSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InterceptedModifyDNOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/OID.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/RateAdjustor.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedAddRequest.java
*
/unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSimpleBindResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptedSearchOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedModifyDNRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSASLBindResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSimpleBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InterceptedExtendedOperation.java
*
/unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InterceptedCompareOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSearchReference.java
* /unboundid-ldapsdk-6-0-3-sources-1-

jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedDeleteResult.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSASLBindRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptedSearchEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/listener/interceptor/InMemoryOperationInterceptorRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/TrustAllSSLSocketVerifier.java
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*/
/**
* This class defines a Directory Server task that can be used to back up one or
* more Directory Server backends.

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable
 or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The path to the directory in which the backup should be placed.  If
*       multiple backends are to be backed up at once, then this should be the
*       parent of the backup directories for each backend.  This must be
*       provided when scheduling this task.</LI>
*   <LI>The backend IDs of the backends to archive.  If this is not provided,
*       then the server will attempt to back up all supported backends.</LI>
*   <LI>The backup ID to use for the backup.  If this is not provided, then the
*       server will generate a backup ID.</LI>
*   <LI>A flag that indicates whether the backup should be an incremental
*       backup (if the backend supports that capability) or a full backup.</LI>
*   <LI>The backup ID of the existing backup on which the
 incremental backup
*       should be based.  If this is not provided and an incremental backup
*       is to be performed, then it will be based on the most recent backup in
*       the backup directory.</LI>
*   <LI>A flag that indicates whether to compress the contents of the
*       backup.</LI>
*   <LI>A flag that indicates whether to encrypt the contents of the
*       backup.</LI>
*   <LI>A flag that indicates whether to hash the contents of the backup to use
*       as a checksum for verifying the integrity of the backup.</LI>
*   <LI>A flag that indicates whether to sign the backup hash in order to
*       prevent anyone from tampering with it.</LI>
*   <LI>The path to a file containing a passphrase to use to generate the
*       encryption key.</LI>
*   <LI>The ID of the encryption settings definition to use to generate the
*       encryption key.</LI>
*   <LI>The maximum rate in megabytes per second at which the backup should be
*       written.</LI>
*   <LI>The
 minimum number of previous full backups to retain.</LI>
*   <LI>The minimum age of previous full backups to retain.</LI>
* </UL>
```

```
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/BackupTask.java
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*/
/**
* This class provides a collect support data log capture window implementation
* that indicates that the tool should capture a specified amount of data (in
* kilobytes) from the beginning and end of each log file when processing a
* {@link CollectSupportDataExtendedRequest}.
* <BR>
```

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent
 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see  CollectSupportDataExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/HeadAndTailSizeCollectSupportDataLogCaptureWindow.java
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*/
/**
  * Converts this clear-text connection to one that uses SASL integrity and/or
  * confidentiality.
  *
  * @param  saslClient  The SASL client that will be used to secure the
  *                     communication.
  *
  * @throws  LDAPException  If a problem occurs while attempting to convert the
  *                         connection to use a SASL security layer.
  */
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionInternals.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/RenameAttributeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/ExcludeEntryTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/AggregateLDIFWriterChangeRecordTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00ModifyDNEntry.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/AddAttributeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/DNFileReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/FilterFileReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/LDIFChangeRecordTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00AddEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00SearchEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/AggregateLDIFReaderEntryTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/AggregateLDIFReaderChangeRecordTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/IPAddressArgumentValueValidator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/TransformLDIF.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/TimestampArgument.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00Entry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/EntryTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00ExtendedEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONObjectReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/AggregateLDIFWriterEntryTranslator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/Base64Tool.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/ReplaceWithCounterTransformation.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/ScrambleAttributeTransformation.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/RateLimiterRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/SetEnabledProtocolsAndCipherSuitesSSLServerSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/SubCommand.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00CompareEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/ReplaceAttributeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/ConcurrentRequestLimiterRequestHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/ExcludeAttributeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00DeleteEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00BindEntry.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONBuffer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/PreEncodedLDIFEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00ModifyEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00AbandonEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/MoveSubtreeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00UnbindEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/RedactAttributeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/FlattenSubtreeTransformation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/TimestampRangeArgumentValueValidator.java
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/**
* This class provides an implementation of an extended result that can be used
* to retrieve backup compatibility data for a Directory Server backend.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications
 that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended result is 1.3.6.1.4.1.30221.2.6.31.  If the request
* was processed successfully, then the response will have a value with the
* following encoding:
* <PRE>
*   GetBackupCompatibilityDescriptorResult ::= SEQUENCE {
*        descriptor     [0] OCTET STRING,
*        properties     [1] SEQUENCE OF OCTET STRING OPTIONAL,
*        ... }
```

```
* </PRE>
*
* @see  GetBackupCompatibilityDescriptorExtendedRequest
* @see  IdentifyBackupCompatibilityProblemsExtendedRequest
*/
```

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*/
/**
```

```
* This enum defines the set of fields that are supported for use with the
* {@link PasswordPolicyStateJSON} object.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
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```

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*/
/**
* This class provides support for generating a JSON object that may be included
* in a REPLACE modification to the ds-pwp-modifiable-state-json operational
* attribute to manipulate elements in the user's password policy state.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see  ModifiablePasswordPolicyStateJSON
* @see  ModifiablePasswordPolicyStateJSONField
* @see  PasswordPolicyStateJSON
* @see  PasswordPolicyStateExtendedRequest
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/ModifiablePasswordPolicyStateJSONBuilder.java
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*/
/**
* This class provides an {@link LDAPResultWriter} instance that formats results
* in LDIF.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/LDIFLDAPResultWriter.java
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*/
/**
* This class provides an implementation of a join rule as used by the LDAP join
* request control.  See the class-level documentation for the
* {@link JoinRequestControl} class for additional information and an example
* demonstrating its use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
* <BR>
* Join rules are encoded as follows:
* <PRE>
*   JoinRule ::= CHOICE {
*       and              [0] SET (1 .. MAX) of JoinRule,
*       or               [1] SET (1 .. MAX) of JoinRule,
*       dnJoin           [2] AttributeDescription,
*       equalityJoin     [3] JoinRuleAssertion,
*       containsJoin     [4] JoinRuleAssertion,
*       reverseDNJoin    [5] AttributeDescription,
*       ... }
*
*   JoinRuleAssertion ::= SEQUENCE {
*       sourceAttribute    AttributeDescription,
*       targetAttribute    AttributeDescription,
*       matchAll           BOOLEAN DEFAULT FALSE }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinRule.java
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*/
/**
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The use of interactive transactions is strongly discouraged
*   because it can create conditions which are prone to deadlocks between
*   operations that may significantly affect performance and will result in the
*   cancellation of one or both operations.  It is strongly recommended that
*   standard LDAP transactions (which may be started using a
*   {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
*   or a {@link MultiUpdateExtendedRequest}
 be used instead.  Although they
*   cannot include arbitrary read operations, LDAP transactions and
*   multi-update operations may be used in conjunction with the
*   {@link com.unboundid.ldap.sdk.controls.AssertionRequestControl},
*   {@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}, and
*   {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl} to
*   incorporate some read capability into a transaction, and in conjunction
*   with the {@link com.unboundid.ldap.sdk.ModificationType#INCREMENT}
*   modification type to increment integer values without the need to know the
*   precise value before or after the operation (although the pre-read and/or
*   post-read controls may be used to determine that).
* </BLOCKQUOTE>
* This class provides an implementation of the start interactive transaction
* extended request.  It may be used to begin a transaction that allows multiple
* operations to be processed as a single atomic unit.  Interactive transactions
 * may include read operations, in which case it is guaranteed that no
* operations outside of the transaction will be allowed to access the
* associated entries until the transaction has been committed or aborted.  The
* {@link StartInteractiveTransactionExtendedResult} that is returned will
* include a a transaction ID, which should be included in each operation that
* is part of the transaction using the
* {@code InteractiveTransactionSpecificationRequestControl}.  After all
* requests for the transaction have been submitted to the server, the
* {@link EndInteractiveTransactionExtendedRequest} should be used to
* commit that transaction, or it may also be used to abort the transaction if
* it is decided that it is no longer needed.
* <BR>
* <BLOCKQUOTE>
```

```
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The start transaction extended request may include an element which indicates
* the base DN below which all operations will be attempted.  This may be used
* to allow the Directory Server to tailor the transaction to the appropriate
* backend.
* <BR><BR>
* Whenever the client sends a start interactive transaction request to the
* server, the {@link StartInteractiveTransactionExtendedResult} that is
* returned will include a transaction ID that may be used to identify the
* transaction for all operations which are to be performed as part of the
* transaction.  This transaction ID should be included in a
* {@code InteractiveTransactionSpecificationRequestControl} attached to each
* request that
 is to be processed as part of the transaction.  When the
* transaction has completed, the
* {@link EndInteractiveTransactionExtendedRequest} may be used to commit it,
* and it may also be used at any time to abort the transaction if it is no
* longer needed.
* <H2>Example</H2>
* The following example demonstrates the process for creating an interactive
* transaction, processing multiple requests as part of that transaction, and
* then commits the transaction.
* <PRE>
* // Start the interactive transaction and get the transaction ID.
* StartInteractiveTransactionExtendedRequest startTxnRequest =
*      new StartInteractiveTransactionExtendedRequest("dc=example,dc=com");
* StartInteractiveTransactionExtendedResult startTxnResult =
*      (StartInteractiveTransactionExtendedResult)
*      connection.processExtendedOperation(startTxnRequest);
* if (startTxnResult.getResultCode() != ResultCode.SUCCESS)
* {
*   throw new LDAPException(startTxnResult);
* }
* ASN1OctetString
 txnID = startTxnResult.getTransactionID();
*
* // At this point, we have a valid transaction.  We want to ensure that the
* // transaction is aborted if any failure occurs, so do that in a
* // try-finally block.
```

```
* boolean txnFailed = true;
* try
* {
*   // Perform a search to find all users in the "Sales" department.
*   SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*       SearchScope.SUB, Filter.createEqualityFilter("ou", "Sales"));
*   searchRequest.addControl(
*       new InteractiveTransactionSpecificationRequestControl(txnID, true,
*           true));
*
*   SearchResult searchResult = connection.search(searchRequest);
*   if (searchResult.getResultCode() != ResultCode.SUCCESS)
*   {
*     throw new LDAPException(searchResult);
*   }
*
*   // Iterate through all of the users and assign a new fax number to each
*   // of them.
*   for (SearchResultEntry e : searchResult.getSearchEntries())
*   {
*     ModifyRequest modifyRequest
 = new ModifyRequest(e.getDN(),
*         new Modification(ModificationType.REPLACE,
*             "facsimileTelephoneNumber", "+1 123 456 7890"));
*     modifyRequest.addControl(
*         new InteractiveTransactionSpecificationRequestControl(txnID, true,
*
*             true));
*     connection.modify(modifyRequest);
*   }
*
*   // Commit the transaction.
*   ExtendedResult endTxnResult = connection.processExtendedOperation(
*       new EndInteractiveTransactionExtendedRequest(txnID, true));
*   if (endTxnResult.getResultCode() == ResultCode.SUCCESS)
*   {
*     txnFailed = false;
*   }
* }
* finally
* {
*   if (txnFailed)
*   {
*     connection.processExtendedOperation(
*         new EndInteractiveTransactionExtendedRequest(txnID, false));
*   }
* }
* </PRE>
```

```
*
* @deprecated  The use of interactive transactions is strongly discouraged
*              because it can create conditions which are prone to deadlocks
*              between operations
 that may significantly affect performance and
*              will result in the cancellation of one or both operations.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartInteractiveTransactionExtendedRequest.java
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```

```
*/
/**
* This class provides an implementation of the proxied authorization V1
* request control, which may be used to request that the associated operation
* be performed as if it had been requested by some other user.  It is based on
* the specification provided in early versions of the
* draft-weltman-ldapv3-proxy Internet Draft (this implementation is based on
* the "-04" revision).  Later versions of the draft, and subsequently
* <A HREF="http://www.ietf.org/rfc/rfc4370.txt">RFC 4370</A>, define a second
 * version of the proxied authorization control with a different OID and
* different value format.  This control is supported primarily for legacy
* purposes, and it is recommended that new applications use the
* {@link ProxiedAuthorizationV2RequestControl} instead if this version.
* <BR><BR>
* The value of this control includes the DN of the user as whom the operation
* should be performed.  Note that it should be a distinguished name, and not an
* authzId value as is used in the proxied authorization V2 control.
* <BR><BR>
* This control may be used in conjunction with add, delete, compare, delete,
* extended, modify, modify DN, and search requests.  In that case, the
* associated operation will be processed under the authority of the specified
* authorization identity rather than the identity associated with the client
* connection (i.e., the user as whom that connection is bound).  Note that
* because of the inherent security risks associated with the use of the proxied
 * authorization control, most directory servers which support its use enforce
* strict restrictions on the users that are allowed to request this control.
* Note that while the directory server should return a
* {@link ResultCode#AUTHORIZATION_DENIED} result for a proxied authorization V2
* control if the requester does not have the appropriate permission to use that
* control, this result will not necessarily be used for the same condition with
* the proxied authorization V1 control because this result code was not defined
* until the release of the proxied authorization V2 specification.
* code.
* <BR><BR>
* There is no corresponding response control for this request control.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the proxied authorization V1
* control to delete an entry under the authority of the user with DN
* "uid=alternate.user,ou=People,dc=example,dc=com":
* <PRE>
* // Create a delete request to delete an entry.  Include
 the proxied
* // authorization v1 request control in the delete request so that the
* // delete will be processed as user
* // "uid=alternate.user,ou=People,dc=example,dc=com" instead of the user
* // that's actually authenticated on the connection.
* DeleteRequest deleteRequest =
```

```
*      new DeleteRequest("uid=test.user,ou=People,dc=example,dc=com");
* deleteRequest.addControl(new ProxiedAuthorizationV1RequestControl(
*      "uid=alternate.user,ou=People,dc=example,dc=com"));
*
* LDAPResult deleteResult;
* try
* {
*   deleteResult = connection.delete(deleteRequest);
*   // If we got here, then the delete was successful.
* }
* catch (LDAPException le)
* {
*   // The delete failed for some reason.  In addition to all of the normal
*   // reasons a delete could fail (e.g., the entry doesn't exist, or has one
*   // or more subordinates), proxied-authorization specific failures may
*   // include that the authenticated user doesn't have permission to use the
*   //
 proxied authorization control to impersonate the alternate user, that
*   // the alternate user doesn't exist, or that the alternate user doesn't
*   // have permission to perform the requested operation.
*   deleteResult = le.toLDAPResult();
*   ResultCode resultCode = le.getResultCode();
*   String errorMessageFromServer = le.getDiagnosticMessage();
* }
* </PRE>
*/
```

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a modify operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* <BLOCKQUOTE>
*   <B>NOTE:</B>  The use of interactive transactions is strongly discouraged
*   because it can create conditions which are prone to deadlocks between
*   operations that may significantly affect performance and will result in the
*   cancellation of one or both operations.  It is strongly recommended that
*   standard LDAP transactions (which may be started using a
*   {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
*   or a {@code MultiUpdateExtendedRequest}
 be used instead.  Although they
*   cannot include arbitrary read operations, LDAP transactions and
*   multi-update operations may be used in conjunction with the
*   {@link com.unboundid.ldap.sdk.controls.AssertionRequestControl},
*   {@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}, and
*   {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl} to
*   incorporate some read capability into a transaction, and in conjunction
*   with the {@link com.unboundid.ldap.sdk.ModificationType#INCREMENT}
*   modification type to increment integer values without the need to know the
*   precise value before or after the operation (although the pre-read and/or
```

```
*   post-read controls may be used to determine that).
* </BLOCKQUOTE>
* This class provides an implementation of the interactive transaction
* specification request control, which may be used to indicate that the
* associated operation is part of an interactive transaction.  It may be used
* in conjunction
 with add, compare, delete, modify, modify DN, and search
* requests, as well as some types of extended requests.  The transaction should
* be created with the start interactive transaction extended request, and the
* end interactive transaction extended request may be used to commit or abort
* the associated transaction.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The elements of the interactive transaction specification request control may
* include:
* <UL>
*   <LI><CODE>txnID</CODE> -- The transaction
 ID for the transaction, which was
*       obtained from a previous
*       {@code StartInteractiveTransactionExtendedResult}.</LI>
*   <LI><CODE>abortOnFailure</CODE> -- Indicates whether the transaction should
*       be aborted if the request associated with this control does not
*       complete successfully.</LI>
*   <LI><CODE>writeLock</CODE> -- Indicates whether the target entry may be
*       altered by this or a subsequent operation which is part of the
*       transaction.  It should generally be {@code false} only for read
*       operations in which it is known that the target entry will not be
*       altered by a subsequent operation.</LI>
* </UL>
* See the documentation for the
* {@code StartInteractiveTransactionExtendedRequest} class for an example of
* processing an interactive transaction.
*
* @deprecated  The use of interactive transactions is strongly discouraged
*              because it can create conditions which are prone to deadlocks
 *              between operations that may significantly affect performance and
*              will result in the cancellation of one or both operations.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/InteractiveTransactionSpecificationRequestControl.java
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*/
/**
* This class provides an implementation of an LDAP command-line tool that may
* be used to issue searches to a directory server.  Matching entries will be
* output in the LDAP data interchange format (LDIF), to standard output and/or
* to a specified file.  This is a much more full-featured tool than the
* {@link com.unboundid.ldap.sdk.examples.LDAPSearch} tool, and includes a
* number of features only intended for use with Ping Identity, UnboundID, and
```

* Nokia/Alcatel-Lucent 8661 server products.
*
 * <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPSearch.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a compare
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/CompareRequestAccessLogMessage.java

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*/
/**
* This class defines a Directory Server task that can be used to cause the
* server to generate administrative alerts, or to manage the set of degraded or
* unavailable alert types.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The alert type of the alert notification to generate.  If this is
*       provided, then an alert message must also be provided.</LI>
*   <LI>The alert message for the alert notification to generate.  If this is
*       provided, then an alert type must also be provided.</LI>
*   <LI>The names of the alert types to add to the set of degraded alert types
*       in the general monitor entry.</LI>
*   <LI>The names of the alert types to remove from the set of degraded alert
*       types in the general monitor entry.</LI>
*   <LI>The names of the alert types to add to the set of unavailable alert
*       types in the general monitor entry.</LI>
*   <LI>The names of the alert types to remove
 from the set of unavailable
*       alert types in the general monitor entry.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/AlertTask.java
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*/
/**
* This class provides a number of utility methods for interacting with tasks in
* Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 server instances.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
```

```
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications
 that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* It provides methods for the following:
* <UL>
*   <LI>Retrieving information about all scheduled, running, and
*       recently-completed tasks in the server.</LI>
*   <LI>Retrieving a specific task by its task ID.</LI>
*   <LI>Scheduling a new task.</LI>
*   <LI>Waiting for a scheduled task to complete.</LI>
*   <LI>Canceling a scheduled task.</LI>
*   <LI>Deleting a scheduled task.</LI>
* </UL>
* <H2>Example</H2>
* The following example demonstrates the process for retrieving information
* about all tasks within the server and printing their contents using the
* generic API:
* <PRE>
* List&lt;Task&gt; allTasks = TaskManager.getTasks(connection);
* for (Task task : allTasks)
* {
*   String taskID = task.getTaskID();
*   String taskName = task.getTaskName();
*   TaskState taskState = task.getState();
 *   Map&lt;TaskProperty,List&lt;Object&gt;&gt; taskProperties =
*       task.getTaskPropertyValues();
* }
* </PRE>
*/
```

Found in path(s):

```
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/TaskManager.java
```

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*/
/**
* This class provides a tool that may be used to read and summarize the
* contents of one or more access log files from Ping Identity, UnboundID and
* Nokia/Alcatel-Lucent 8661 server products.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary
 functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* Information that will be reported includes:
* <UL>
*   <LI>The total length of time covered by the log files.</LI>
*   <LI>The number of connections established and disconnected, the addresses
*       of the most commonly-connecting clients, and the average rate of
*       connects and disconnects per second.</LI>
```

```
*   <LI>The number of operations processed, overall and by operation type,
*       and the average rate of operations per second.</LI>
*   <LI>The average duration for operations processed, overall and by operation
*       type.</LI>
*   <LI>A breakdown of operation processing times into a number of predefined
*       categories, ranging from less than one millisecond to over one
*       minute.</LI>
*   <LI>A breakdown of the most common result codes for each
 type of operation
*       and their relative frequencies.</LI>
*   <LI>The most common types of extended requests processed and their
*       relative frequencies.</LI>
*   <LI>The number of unindexed search operations processed and the most common
*       types of filters used in unindexed searches.</LI>
*   <LI>A breakdown of the relative frequencies for each type of search
*       scope.</LI>
*   <LI>The most common types of search filters used for search
*       operations and their relative frequencies.</LI>
* </UL>
* It is designed to work with access log files using either the default log
* format with separate request and response messages, as well as log files
* in which the request and response details have been combined on the same
* line.  The log files to be processed should be provided as command-line
* arguments.
* <BR><BR>
* The APIs demonstrated by this example include:
* <UL>
*   <LI>Access log parsing (from the
*       {@code com.unboundid.ldap.sdk.unboundidds.logs}
 package)</LI>
*   <LI>Argument parsing (from the {@code com.unboundid.util.args}
*       package)</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/examples/SummarizeAccessLog.java
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*/
/**
* This class provides an implementation of an extended result that holds
* information about the response returned from a
* {@link GetSubtreeAccessibilityExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* It has an OID of 1.3.6.1.4.1.30221.1.6.21, and successful responses will have
* a value with the following encoding:
* <BR><BR>
* <PRE>
```

```
*   GetSubtreeAccessibilityResultValue ::= SEQUENCE OF SEQUENCE {
*        subtreeBaseDN           [0] LDAPDN,
*        subtreeAccessibility    [1] ENUMERATED {
*             accessible              (0),
*             read-only-bind-allowed  (1),
*             read-only-bind-denied   (2),
*             hidden                  (3),
*             ... },
*        bypassUserDN            [2] LDAPDN OPTIONAL,
*        effectiveTime           [3] OCTET STRING,
*        ... }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSubtreeAccessibilityExtendedResult.java
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/**
* This class defines a Directory Server task that can be used to request that
* the server terminate a client connection.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered
 stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The connection ID for the client connection to be terminated.  This
*       is required.</LI>
*   <LI>A flag that indicates whether the client connection should be notified
*       (e.g., using a notice of disconnection unsolicited notification) before
*       the connection is actually terminated.</LI>
*   <LI>An optional message that may provide a reason for the disconnect.  If
*       this is provided, it will appear in the server log, and it may be
*       provided to the client if the client is to be notified before the
*       connection is closed.</LI>
* </UL>

*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/DisconnectClientTask.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an abandon
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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jar/com/unboundid/ldap/sdk/unboundidds/logs/AbandonForwardAccessLogMessage.java
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPObjectHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ExtendedRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/CompareResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ModifyDNRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/InternalSDKHelper.java
*

/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/AuthRate.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/PersistedObjects.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/EntrySource.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/AbandonRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/SearchResultEntryProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPInterruptedException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/DeleteRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/GetterInfo.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/WakeableSleeper.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ColumnFormatter.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ConnectionClosedResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFAttribute.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/PersistUtils.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/LDAPMessage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/PermissiveModifyRequestControl.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/migrate/ldapjdk/JavaToLDAPSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1StreamReader.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/GetEntryLDAPConnectionPoolHealthCheck.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/LDAPSDKRuntimeException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPExtendedResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPPersister.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ReverseComparator.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/FilterUsage.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ModifyRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/UnbindRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/FieldInfo.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ModifyDNResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/IntermediateResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/CaseIgnoreListMatchingRule.java
*
/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/ObjectSearchListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ResultCodeCounter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ConnectThread.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPConstraints.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Mutable.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPSetter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/DefaultObjectEncoder.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPRebindAuth.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ExtendedResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/GenerateSourceFromSchema.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/IterableEnumeration.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/NotExtensible.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1BufferSequence.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPModification.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPObject.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/HorizontalAlignment.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPAttribute.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/jndi/JNDIExtendedResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPEntrySource.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPSearchResults.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1StreamReaderSet.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/CompactAttribute.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/GenerateSchemaFromSource.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/TypeInfo.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/SearchResultDoneProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPDN.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPRebind.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/SetterInfo.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/SASLClientBindHandler.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/ResponseAcceptor.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPEntry.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/DefaultOIDAllocator.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPEntryField.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/FixedRateBarrier.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPToJavaSocketFactory.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPExtendedOperation.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionStatistics.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionPoolHealthCheck.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPPersistException.java
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/SearchResultReferenceEntrySourceException.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPUrl.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/examples/AuthRateThread.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/BindResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/IntermediateResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/Extensible.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPConnection.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ThreadSafety.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ThreadSafetyLevel.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/SearchRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPDNField.java

* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/DeleteResponseProtocolOp.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPAttributeSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/ObjectEncoder.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPSearchConstraints.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPBind.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPModificationSet.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/SearchResultReferenceProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1StreamReaderSequence.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/BindRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPField.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPConnectionPoolStatistics.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/jndi/JNDIConverter.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/IntermediateResponseListener.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/GenericResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/EntrySourceException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/OutputFormat.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFEntrySource.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/AddResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Buffer.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/jndi/package-info.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/OIDAllocator.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ModifyResponseProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/FormattableColumn.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/SearchListenerBridge.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/LDAPThreadLocalConnectionPool.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/LDAPResponse.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/LDAPSDKUsageException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPReferralException.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/AddRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/LDAPGetter.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/GSSAPIBindRequest.java
*
 /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/CompareRequestProtocolOp.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/NotMutable.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/migrate/jndi/JNDIExtendedRequest.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1BufferSet.java
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*/
/**
* This class defines an extended request that may be used to request that a
* Ping Identity Directory Server instance (or related Ping Identity server
* product) purge information about any retired listener certificates from its
* topology registry.  This extended request has an OID of
* 1.3.6.1.4.1.30221.2.6.70 and no value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity,
 UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
```

```
*
* @see  PurgeRetiredListenerCertificatesExtendedResult
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PurgeRetiredListenerCertificatesExtendedRequest.java
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*/
/**
* This class defines a generic monitor entry that provides access to monitor
* information provided by a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
```

```
* 8661 server instance.  Subclasses may provide specific methods for
* interpreting the information exposed by specific types of monitor entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID,
 and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* See the {@link MonitorManager} class for an example that demonstrates the
* process for retrieving all monitor entries available in the directory server
* and retrieving the information they provide using the generic API.
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/MonitorEntry.java
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*/
/**
* This class provides an extended request that may be used to create or update
* a notification destination.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or
 mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* The request has an OID of 1.3.6.1.4.1.30221.2.6.36 and a value with the
* following encoding:
*

* <PRE>
*   SetNotificationDestinationRequest ::= SEQUENCE {
*   notificationManagerID   OCTET STRING,
*   notificationDestinationID   OCTET STRING,
*   destinationDetails   SEQUENCE OF OCTET STRING,
*   changeType   [0] ENUMERATED {
*   replace (0),
*   add (1),
*   delete (2) } DEFAULT replace }
* </PRE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/SetNotificationDestinationExtendedRequest.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an add
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes
 provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/AddForwardFailedAccessLogMessage.java
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*/
/**
* This class defines a monitor entry that provides information about a
* load-balancing algorithm used by the Directory Proxy Server.

```
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Information that it may make available includes:
* <UL>
*   <LI>The aggregate health check state for servers associated with the
*       load-balancing algorithm.</LI>
*   <LI>Information about each server associated with the load-balancing
*       algorithm, including the address, port, and health check state for the
*       server.</LI>
*   <LI>The number of available, degraded, and unavailable servers associated
*       with the load-balancing algorithm.</LI>
* </UL>
* The server should present a load-balancing algorithm monitor entry for each
* load-balancing algorithm used by a proxying request processor.  These entries
* can be retrieved using the
* {@link MonitorManager#getLoadBalancingAlgorithmMonitorEntries} method.  These
* entries provide specific methods for accessing this information.
* Alternately, the information
 may be accessed using the generic API.  See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/LoadBalancingAlgorithmMonitorEntry.java

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*/
/**
* This class provides a {@link ReplaceCertificateKeyStoreContent}
* implementation to indicate that the server should use a certificate key store
* whose content (that is, the bytes that comprise the key store file) is
* provided directly in the extended request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/KeyStoreDataReplaceCertificateKeyStoreContent.java
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*/
/**
* This class provides an implementation of the LDAP no-op control as defined in
* draft-zeilenga-ldap-noop.  This control may be included in an add, delete,
* modify, or modify DN request to indicate that the server should validate the
* request but not actually make any changes to the data.  It allows the client
* to verify that the operation would likely succeed (including schema
* validation, access control checks, and other processing) without making any
* changes to the server data.
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
```

```
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Note that an operation which includes the no-op control will never have a
* {@link ResultCode#SUCCESS} result.  Instead, if the operation would likely
* have completed successfully if the no-op control had not been included, then
* the server will include a response with the {@link ResultCode#NO_OPERATION}
* result.  If the operation would not have been successful, then the result
* code in the response will be the appropriate result code for that failure.
* Note that if
 the response from the server includes the
* {@link ResultCode#NO_OPERATION} result, then the LDAP SDK will not throw an
* exception but will instead return the response in an
* {@link com.unboundid.ldap.sdk.LDAPResult} object.  There is no corresponding
* response control.
* <BR><BR>
* Note that at the time this control was written, the latest version of the
* specification may be found in draft-zeilenga-ldap-noop-11.  This version of
* the document does not explicitly specify either the OID that should be used
* for the control, or the result code that should be used for the associated
* operation if all other processing is completed successfully but no changes
* are made as a result of this control.  Until such time as these are defined,
* this implementation uses the OID temporarily assigned for its use by the
* OpenLDAP Foundation, which is used by at least the OpenLDAP, OpenDS, and the
* Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server
* implementations.
 * <BR><BR>
* This control has an OID of 1.3.6.1.4.1.4203.1.10.2 and a criticality of true.
* It does not have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process for attempting to perform a
* modify operation including the LDAP no-op control so that the change is not
* actually applied:
* <PRE>
* ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",
*      new Modification(ModificationType.REPLACE, "description",
*           "new value"));
* modifyRequest.addControl(new NoOpRequestControl());
*
* try
* {
*   LDAPResult result = connection.modify(modifyRequest);
*   if (result.getResultCode() == ResultCode.NO_OPERATION)
```

```
*   {
*     // The modify would likely have succeeded.
*   }
*   else
*   {
*     // The modify would likely have failed.
*   }
* }
* catch (LDAPException le)
* {
*   // The modify attempt failed even with the no-op control.
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/NoOpRequestControl.java
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*/
/**
* This class provides an implementation of an extended request that can be used
* to consume a single-use token that was generated and provided to the user
* through the deliver single-use token extended operation.  Once a token has
* been consumed, it cannot be used again, although a new token can be generated
* and delivered to the user if necessary.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are
 only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of "1.3.6.1.4.1.30221.2.6.51" and it must
* have a value with the following encoding:
* <PRE>
*   ConsumeSingleUseTokenRequestValue ::= SEQUENCE {
*        userDN      LDAPDN,
*        tokenID     OCTET STRING,
*        tokenValue  OCTET STRING
*        ... }
* </PRE>
*
* @see  DeliverSingleUseTokenExtendedResult
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ConsumeSingleUseTokenExtendedRequest.java
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*/
/**
* This class defines a request control that may be included in a search request
* to indicate that the server should include replication conflict entries in
* the set of search result entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary
 functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
```

* This control is not based on any public standard. It was originally
* developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server. It does not have a value.
*

* There is no corresponding response control. Replication conflict entries may
* be identified by the object class "ds-sync-conflict-entry".
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/controls/ReturnConflictEntriesRequestControl.java
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```
*/
/**
* This enum defines the set of allowed timestamp formats for use in conjunction
* with the file retention task.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
```

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*/
/**
* This class provides an implementation for a response control that can be
* returned by the server in the response for add, modify, and password modify
* requests that include the password validation details request control.  This
* response control will provide details about the password quality requirements
* that are in effect for the operation and whether the password included in the
* request satisfies each of those requirements.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This response control has an OID of 1.3.6.1.4.1.30221.2.5.41, a criticality
* of {@code false}, and a value with the provided encoding:
* <PRE>
*   PasswordValidationDetailsResponse ::= SEQUENCE {
*       validationResult           CHOICE {
*           validationDetails            [0] SEQUENCE OF
*               PasswordQualityRequirementValidationResult,
*           noPasswordProvided           [1] NULL,
*           multiplePasswordsProvided    [2] NULL,
*           noValidationAttempted        [3] NULL,
 *           ... },
*       missingCurrentPassword    [3] BOOLEAN DEFAULT FALSE,
*       mustChangePassword        [4] BOOLEAN DEFAULT FALSE,
*       secondsUntilExpiration    [5] INTEGER OPTIONAL,
*       ... }
* </PRE>
*/
```

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*/
/**
* This class defines an API that must be implemented by classes that will
* format {@link LDAPCompare} output.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
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*/
/**
* This class defines a monitor entry that provides information about the system
* and JVM on which the Directory Server is running.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*
  considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information that may be available includes:
* <UL>
*   <LI>The name of the operating system on which the server is running.</LI>
*   <LI>The number of CPUs available to the JVM.</LI>
*   <LI>The Java classpath in use by the server.</LI>
*   <LI>The amount of memory currently used by the JVM.</LI>
*   <LI>The maximum amount of memory that the JVM will be allowed to use.</LI>
*   <LI>The amount of memory held by the JVM that is marked as "free" and can
*       be used to allocate new objects.</LI>
*   <LI>The hostname for the underlying system.</LI>
*   <LI>The location in which the server is installed on the
*       underlying system.</LI>
*   <LI>The current working directory for the server process.</LI>
*   <LI>The path to the Java installation being used to run the server.</LI>
*   <LI>The vendor that provides the
 Java installation being used to run the
*       server.</LI>
*   <LI>The Java version string for the Java installation being used to run
*       the server.</LI>
*   <LI>The vendor that provides the JVM being used by the Java installation
*       being used to run the server.</LI>
*   <LI>The JVM version string for the Java installation being used to run the
*       server.</LI>
*   <LI>The JVM architecture data model (i.e., whether it is a 32-bit or 64-bit
*       JVM).</LI>
*   <LI>The arguments provided to the JVM when running the server.</LI>
* </UL>
* The server should present at most one system info monitor entry.  It can be
* retrieved using the {@link MonitorManager#getSystemInfoMonitorEntry} method.
* This entry provides specific methods for accessing this system information
* (e.g., the {@link SystemInfoMonitorEntry#getOperatingSystem}
```

* method can be used to retrieve the name of the operating system).
* Alternately, this information may be accessed using the
 generic API. See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

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*/

```
/**
* This class provides an implementation of an extended result that may be used
* provide the client with the passwords generated by the server in response to
* a {@link GeneratePasswordExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for
 proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the extended request was processed successfully, then this result will
* have an OID of 1.3.6.1.4.1.30221.2.6.63 and a value with the following
* encoding:
* <BR><BR>
* <PRE>
*   GeneratePasswordResponse ::= SEQUENCE {
*        passwordPolicyDN       LDAPDN,
*        generatedPasswords     SEQUENCE OF SEQUENCE {
*             generatedPassword       OCTET STRING,
*             validationAttempted     BOOLEAN,
*             validationErrors        [0] SEQUENCE OF OCTET STRING OPTIONAL,
*             ... },
*        ... }
* </PRE>
* <BR><BR>
* The elements of the response value are:
* <UL>
*   <LI>passwordPolicyDN -- The DN of the password policy that was used to
*       select the password generator and validators used in the course of
*
  creating the passwords.</LI>
*   <LI>generatedPassword -- A clear-text password that was generated by the
*       server.</LI>
*   <LI>validationAttempted -- Indicates whether the server attempted to
*       perform any validation for the generated password.</LI>
*   <LI>validationErrors -- A list of messages describing any problems
*       that were identified while validating the generated password.</LI>
* </UL>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
```

jar/com/unboundid/ldap/sdk/unboundidds/extensions/GeneratePasswordExtendedResult.java
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*/
/**
* This class provides an {@link LDAPResultWriter} instance that simply prints
* the DNs of the entries that are returned, with a separate DN per line.  There
* will not be any blank lines between DNs, and there will not be any prefix
* (for example, "dn:") before each DN.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
*/

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jar/com/unboundid/ldap/sdk/unboundidds/tools/DNsOnlyLDAPResultWriter.java
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*/
/**
* This class provides a request control which may be included in a search
* request to indicate that soft-deleted entries may be included in the results,
* or it may be included in a compare or modify request to indicate that the
* operation should operate against the target entry even if it is a
* soft-deleted entry.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code TRUE} or {@code FALSE},
* but this will only impact how the delete request is to be handled by servers
* which do not support this control.  A criticality of {@code TRUE} will cause
* any server which does not support this control to reject the request, while
* a criticality of {@code FALSE} should cause the request to be processed as if
* the control had not been included.
* <BR><BR>
* The control may optionally have a value.  If a value is provided, then it
* must be the encoded representation of the following ASN.1 element:
* <PRE>
*   SoftDeleteAccessRequestValue ::= SEQUENCE {
*
    includeNonSoftDeletedEntries     [0] BOOLEAN DEFAULT TRUE,
*     returnEntriesInUndeletedForm     [1] BOOLEAN DEFAULT FALSE,
*     ... }
* </PRE>
* See the documentation for the {@link SoftDeleteRequestControl} class for an
* example demonstrating the use of this control.
*
* @see  SoftDeleteResponseControl
*/
```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/SoftDeletedEntryAccessRequestControl.java
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*/
/**
* This enum defines the set of possible values for the element of a
* multi-update result which indicates whether any updates were applied to
* server data.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
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```
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @see MultiUpdateExtendedResult
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/MultiUpdateChangesApplied.java
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/**
```

```
* This class provides an implementation of the get subtree accessibility
* extended request, which may be used to request information about all subtree
* accessibility restrictions currently defined in the server, including for
* subtrees that are hidden or read-only.  Subtree accessibility may be altered
* using the {@link SetSubtreeAccessibilityExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.1.6.20 and does not
* have a value.
*
* @see  GetSubtreeAccessibilityExtendedResult
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSubtreeAccessibilityExtendedRequest.java
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*/
/**
* This class provides an {@link LDAPResultWriter} instance that simply prints
* the values of all attributes in the entries that are returned, with each
* value on a line by itself.  Entry DNs will not be included, and there will
* not be any blank lines between entries.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class represents a data structure with information about a notification
* destination defined in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
* 8661 server instance.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/LogMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/cert/CertMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/experimental/ExperimentalMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/ssl/SSLMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/interceptor/InterceptorMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/JFMessages.java
*

/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldif/LDIFMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/json/JSONMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDDSMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/extensions/ExtOpMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/monitors/MonitorMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/controls/ControlMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ExtOpMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/matchingrules/MatchingRuleMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/asn1/ASN1Messages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/persist/PersistMessages.java
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/unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/util/args/ArgsMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/transformations/TransformationMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/listener/ListenerMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/protocol/ProtocolMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/TaskMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/ControlMessages.java
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/schema/SchemaMessages.java
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/**
* This class provides a search result listener that will be used in conjunction
* with the {@link LDAPModify} tool to apply a modification to entries matching
* a given search filter.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPModifySearchListener.java
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*/
/**
* This class provides an implementation of the account usable request control.
* It may be included in search requests, in which case each search result entry
* matching that request should include the corresponding response control to
* obtain information about the usability of the user account associated with
* that entry.  In particular, it indicates whether a bind with valid
* credentials would likely succeed and the resulting connection would be
* usable, and if not the reason for the potential failure.
  See the
* {@link AccountUsableResponseControl} for information about the information
* that is taken into account.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control was designed by Sun Microsystems and is not based on any RFC or
* Internet draft.  It does not include a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the account usable controls to
* determine whether the account for user with uid "john.doe" is usable:
* <PRE>
* SearchRequest searchRequest
```

```
 =
*      new SearchRequest("dc=example,dc=com", SearchScope.SUB,
*           Filter.createEqualityFilter("uid", "john.doe"));
* searchRequest.addControl(new AccountUsableRequestControl());
* SearchResult searchResult = connection.search(searchRequest);
*
* boolean isUsable = false;
* for (SearchResultEntry entry : searchResult.getSearchEntries())
* {
*   AccountUsableResponseControl c =
*        AccountUsableResponseControl.get(entry);
*   isUsable = c.isUsable();
*   if (isUsable)
*   {
*     // The account is usable.
*   }
*   else
*   {
*     // The account is not usable.
*     List&lt;String&gt; unusableReasons = c.getUnusableReasons();
*   }
* }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/AccountUsableRequestControl.java
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*/
/**
* This class provides an entry that is to be used as the output generated by an
* {@link com.unboundid.ldif.LDIFReaderEntryTranslator} used by the
* {@link SplitLDIF} tool.  It includes a pre-encoded LDIF representation of the
* entry, and may include the sets to which the entry should be written.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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```

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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIFEntry.java
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*/
/**
* This class provides a data structure that will be used to hold the operations
* to process by the parallel-update tool.  The thread reading change records
* from the LDIF file will populate this queue, and modify threads will pull
* entries out.  It will attempt to maintain a sane ordering for the operations
* in order to resolve any dependencies that may exist between operations.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
```

Found in path(s):

* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/ParallelUpdateOperationQueue.java
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*/
/**
* This class provides an implementation of an LDAP control that can be included
* in add, bind, modify, modify DN, and certain extended responses to provide
* information about the result of replication assurance processing for that
* operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
```

```
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this control is 1.3.6.1.4.1.30221.2.5.29.  It will have a
* criticality of FALSE, and will have a value with the following encoding:
* <PRE>
*   AssuredReplicationResponse ::= SEQUENCE {
*       localLevel                [0] LocalLevel OPTIONAL,
*       localAssuranceSatisfied   [1] BOOLEAN,
*       localAssuranceMessage     [2] OCTET STRING OPTIONAL,
*       remoteLevel               [3] RemoteLevel OPTIONAL,
*       remoteAssuranceSatisfied  [4] BOOLEAN,
*       remoteAssuranceMessage    [5] OCTET STRING OPTIONAL,
*       csn                       [6] OCTET STRING OPTIONAL,
*       serverResults             [7] SEQUENCE OF ServerResult OPTIONAL,
*       ... }
*
 *   ServerResult ::= SEQUENCE {
*       resultCode             [0] ENUMERATED {
*           complete           (0),
*           timeout            (1),
*           conflict           (2),
*           serverShutdown     (3),
*           unavailable        (4),
*           duplicate          (5),
*           ... },
*       replicationServerID    [1] INTEGER OPTIONAL,
*       replicaID              [2] INTEGER OPTIONAL,
*       ... }
* </PRE>
*
* @see  AssuredReplicationRequestControl
*/
```

Found in path(s):
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an add
* request forwarded to a backend server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

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/**
* This class provides an implementation of the UNBOUNDID-TOTP SASL bind request
* that may be used to repeatedly generate one-time password values. Because it
* is configured with the shared secret rather than a point-in-time version of
* the password, it can be used for cases in which the authentication process

* may need to be repeated (e.g., for use in a connection pool, following
* referrals, or if the auto-reconnect feature is enabled). If the shared
* secret is not known and the one-time password
 will be provided from an
* external source (e.g., entered by a user), then the
* {@link SingleUseTOTPBindRequest} variant should be used instead.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class defines a Directory Server task that can be used to synchronize
* the encryption settings definitions in one instance with one or more other
* servers in the topology. This task does not have any task-specific
* properties.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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*/
/**
  * The int value for the CONFIDENTIALITY_REQUIRED result code.
  */
```

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*/
/**
* This class defines the base class for gauge monitor entries, which provide
* information common to all types of gauges.  Subclasses may provide more
* specific information for that specific type of gauge.
* <BR>
* <BLOCKQUOTE>
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/**
* This class provides a data structure that holds information about an audit
* log message that represents a modify DN operation.
* <BR>
* <BLOCKQUOTE>
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jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNAuditLogMessage.java
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*/
/**
* This class provides a {@link ReplaceCertificateKeyStoreContent}
* implementation to indicate that the certificate chain and private key (in
* either PEM or DER format) are provided directly in the extended request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*/
/**

```
* This class provides an implementation of a control that may be included in a
* search request to override certain default limits that would normally be in
* place for the operation.  The override behavior is specified using one or
* more name-value pairs, with property names being case sensitive.
* <BR>
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The control has an OID of 1.3.6.1.4.1.30221.2.5.56, a criticality of either
* {@code true} or {@code false}, and a value with the provided encoding:
*
* that contains a mapping of one or
* more case-sensitive property-value pairs.  Property names will be treated in
* a case-sensitive manner.
* the following encoding:
* <PRE>
*   OverrideSearchLimitsRequestValue ::= SEQUENCE OF SEQUENCE {
*       propertyName      OCTET STRING,
*       propertyValue     OCTET STRING }
* </PRE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/OverrideSearchLimitsRequestControl.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a search operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchResultAccessLogMessage.java
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*/
/**
* This class provides a set of properties that can be used in conjunction with
* the {@link PasswordUpdateBehaviorRequestControl}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordUpdateBehaviorRequestControlProperties.java
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*/
/**
* This class defines a Directory Server task that can be used to add the
* contents of one or more files to the server schema.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered
 stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The names of the files to add to the server schema.  The specified
*       files must exist within the server's schema configuration directory
*       with the appropriate schema elements defined.  They should be only the
*       base names for the file and should not include any path
*       information.  At least one name must be provided.</LI>
* </UL>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/tasks/AddSchemaFileTask.java
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*/
/**
* This enum defines the set of authentication types that may appear in log
* messages about bind operations.
*
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/logs/BindRequestAuthenticationType.java
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/**
* This class provides an implementation of a control that can be used to
* indicate that the server should suppress the update to one or more
* operational attributes for the associated request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The request control has an OID of 1.3.6.1.4.1.30221.2.5.27, and the
* criticality may be either {@code true} or {@code false}.  The control must
* have a value with the following encoding:
* <PRE>
*   SuppressOperationalAttributeUpdateRequestValue ::= SEQUENCE {
*       suppressTypes     [0] SEQUENCE OF ENUMERATED {
*           last-access-time     (0),
*           last-login-time      (1),
*           last-login-ip        (2),
*           lastmod              (3),
*           ... },
*       ... }
```

* </PRE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/SuppressOperationalAttributeUpdateRequestControl.java
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/**
* This class provides an implementation of a request control that can be
* included in an add request, modify request, or password modify extended
* request to control the way the server should behave when performing a

```
* password change.  The requester must have the password-reset privilege.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
 *   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.30221.2.5.51.  The criticality
* may be either true or false.  It must have a value, and the value should have
* the following encoding:
* <PRE>
*   PasswordUpdateBehaviorRequest ::= SEQUENCE {
*       isSelfChange                    [0] BOOLEAN OPTIONAL,
*       allowPreEncodedPassword         [1] BOOLEAN OPTIONAL,
*       skipPasswordValidation          [2] BOOLEAN OPTIONAL,
*       ignorePasswordHistory           [3] BOOLEAN OPTIONAL,
*       ignoreMinimumPasswordAge        [4] BOOLEAN OPTIONAL,
*       passwordStorageScheme           [5] OCTET STRING OPTIONAL,
*       mustChangePassword
            [6] BOOLEAN OPTIONAL,
*       ... }
* </PRE>
*
* @see  PasswordUpdateBehaviorRequestControlProperties
*/

Found in path(s):
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jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordUpdateBehaviorRequestControl.java
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*/
/**
* This class provides an extended request that may be used to delete a
* notification subscription.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough
 to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The request has an OID of 1.3.6.1.4.1.30221.2.6.39 and a value with the
* following encoding:
* <BR><BR>
* <PRE>
*   DeleteNotificationSubscriptionRequest ::= SEQUENCE {
*        notificationManagerID          OCTET STRING,
*        notificationDestinationID      OCTET STRING,
*        notificationSubscriptionID     OCTET STRING }
* </PRE>
```

*/

Found in path(s):
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/**
* This class defines a Directory Server task that can be used to cause the
* server to leave lockdown mode and resume normal operation. Note that because
* of the nature of lockdown mode, it this task may only be requested by a user
* with the lockdown-mode privilege. Alternately, the server may be restarted

```
* and it will not be placed in lockdown mode at startup unless a significant
* problem is encountered in which there may be a risk of unauthorized access to
* data.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>
  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The leave lockdown mode task does not have any task-specific properties.  See
* the {@link EnterLockdownModeTask} class for more information about lockdown
* mode and a task that may be used to force the server to enter this state.
*/
```

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*/
/**
* This class implements a data structure for storing the information from an
* extended result for the password policy state extended request as used in the
* Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server.  It
* is able to decode a generic extended result to obtain the user DN and
* operations.  See the documentation in the
* {@link PasswordPolicyStateExtendedRequest} class for an example that
* demonstrates the use of the password policy state extended operation.
* <BR>
* <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended result does not have an OID.  If the request was processed
* successfully, then the result will have a value that has the same encoding as
* the request, which was described in the class-level documentation for the
* {@link PasswordPolicyStateExtendedRequest} class.
*/

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jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateExtendedResult.java
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*/
/**
* This class provides a search result listener that will collect the DNs of
* entries matching a set of search criteria.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDeleteSearchListener.java
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*/
/**
* This enum defines the set of count types that may be used in a matching entry
* count response control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
```

```
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature
 enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/MatchingEntryCountType.java
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```

```
*/
/**
* This class provides a {@link ReplaceCertificateTrustBehavior} implementation
* to indicate that the listener certificate should be trusted by the JVM's
* default trust manager.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/JVMDefaultReplaceCertificateTrustBehavior.java
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*/
/**
* This class provides an implementation of an LDAP control that can be included
* in add, bind, modify, modify DN, and certain extended requests to indicate
* the level of replication assurance desired for the associated operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes
 provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this control is 1.3.6.1.4.1.30221.2.5.28, and it may have a
* criticality of either TRUE or FALSE.  It must have a value with the following
* encoding:
* <PRE>
*   AssuredReplicationRequest ::= SEQUENCE {
*        minimumLocalLevel          [0] LocalLevel OPTIONAL,
*        maximumLocalLevel          [1] LocalLevel OPTIONAL,
*        minimumRemoteLevel         [2] RemoteLevel OPTIONAL,
*        maximumRemoteLevel         [3] RemoteLevel OPTIONAL,
*        timeoutMillis              [4] INTEGER (1 .. 2147483647) OPTIONAL,
*        sendResponseImmediately    [5] BOOLEAN DEFAULT FALSE,
*        ... }
*
*   LocalLevel ::= ENUMERATED {
*        none                  (0),
*        receivedAnyServer     (1),
 *        processedAllServers   (2),
*        ... }
*
*   RemoteLevel ::= ENUMERATED {
*        none                  (0),
```

```
*       receivedAnyRemoteLocation      (1),
*       receivedAllRemoteLocations     (2),
*       processedAllRemoteServers      (3),
*       ... }
* </PRE>
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the assured replication request
* control in conjunction with a delete operation to request that the server not
* return the delete result to the client until the delete has been applied to
* all available servers in the local data center and has also been replicated
* to at least one remote data center:
* <PRE>
* DeleteRequest deleteRequest = new DeleteRequest(
*      "uid=test.user,ou=People,dc=example,dc=com");
* deleteRequest.addControl(new AssuredReplicationRequestControl(
*      AssuredReplicationLocalLevel.PROCESSED_ALL_SERVERS,
*      AssuredReplicationRemoteLevel.RECEIVED_ANY_REMOTE_LOCATION,
 *      5000L));
*  LDAPResult deleteResult = connection.delete(deleteRequest);
*
* if (deleteResult.getResultCode() == ResultCode.SUCCESS)
* {
*   AssuredReplicationResponseControl assuredReplicationResponse =
*        AssuredReplicationResponseControl.get(deleteResult);
*   if (assuredReplicationResponse == null)
*   {
*     // The entry was deleted, but its replication could not be confirmed in
*     // either the local or remote data centers.
*   }
*   else
*   {
*     if (assuredReplicationResponse.localAssuranceSatisfied())
*     {
*       if (assuredReplicationResponse.remoteAssuranceSatisfied())
*       {
*         // The entry was deleted.  The delete has been applied across all
*         // available local servers, and has been replicated to at least one
*         // remote data center.
*       }
*       else
*       {
*         // The entry was deleted.  The delete has been applied across all
*         // available local servers, but cannot be confirmed
 to have yet
*         // been replicated to any remote data centers.
*       }
*     }
```

```
*     else if (assuredReplicationResponse.remoteAssuranceSatisfied())
*     {
*       // The entry was deleted.  The delete has been confirmed to have been
*       // replicated to at least one remote data center, but cannot be
*       // confirmed to have yet been applied to all available local servers.
*     }
*     else
*     {
*       // The entry was deleted, but its replication could not be confirmed
*       // to either local servers or remote data centers.
*     }
*   }
* }
* else
* {
*   // The entry could not be deleted.
* }
* </PRE>
*
* @see  AssuredReplicationResponseControl
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/controls/AssuredReplicationRequestControl.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of an abandon operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
 *   for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/AbandonResultAccessLogMessage.java
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*/
/**
* This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* computing a modulus from a digest of a specified attribute.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-
jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIFAttributeHashTranslator.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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 classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
```

```
* </BLOCKQUOTE>
*/
```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyForwardFailedAccessLogMessage.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class defines an exception that may be thrown if a problem occurs while
* attempting to parse a log message.
* <BR>
```

```
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
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```

Found in path(s):
* /unboundid-ldapsdk-6-0-3-sources-1-jar/com/unboundid/ldap/sdk/unboundidds/logs/LogException.java

1.612 google-auth-library-credentials 1.11.0

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1.613 opensaml-xmlsec-impl 4.3.0

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*

/opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/SPKISexpBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/SPKIDataUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/config/impl/DefaultSecurityConfigurationBootstrap.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/DigestMethodUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/SaltUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/X509DataUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/KeyReferenceUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/KeyInfoBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/ReferenceListImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/PublicKeyImpl.java
*
/opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/XPathBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/PgenCounterBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/YBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/DSAKeyValueMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/TransformsBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/derivation/impl/PBKDF2.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/ECKeyValueUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/EncryptedTypeUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/config/impl/ApacheXMLSecurityInitializer.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/signature/support/impl/BaseSignatureTrustEngine.java
*
/opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/encryption/impl/ConcatKDFParamsUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/encryption/impl/OriginatorKeyInfoMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/KeySizeImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/encryption/impl/AgreementMethodMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/JBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/TransformMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/CryptoBinaryBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/ReferenceListMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/X509IssuerNameBuilder.java
*
/opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/EncryptionMethodMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/TransformsUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/EncryptedTypeMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/CarriedKeyNameImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/OriginatorKeyInfoBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/X509SerialNumberMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/X509CertificateImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/keyinfo/impl/provider/AbstractKeyInfoProvider.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/RecipientKeyInfoBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/SeedImpl.java

*
/opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/RSAKeyValueImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/EncryptionMethodBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/signature/support/impl/SignatureAlgorithmValidator.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/MGFImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/KeyLengthImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/SPKISexpImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/agreement/impl/StaticStaticMode.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/TransformsImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/signature/support/impl/ExplicitKeySignatureTrustEngine.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/EncryptionPropertiesImpl.java
*
/opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/PBKDF2ParamsBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/KeyValueMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/RecipientKeyInfoMarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/OAEPparamsBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/ReferenceTypeUnmarshaller.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/DEREncodedKeyValueImpl.java
* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/agreement/impl/AbstractKeyAgreementProcessor.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/impl/AlgorithmRuntimeSupportedPredicate.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/EncryptedTypeImpl.java
*
/opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/signature/impl/X509SKIBuilder.java
* /opensaml-xmlsec-impl-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/impl/KeyReferenceMarshaller.java
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* /opensaml-xmlsec-impl-4-3-0-sources-
jar/org/opensaml/xmlsec/agreement/impl/KeyAgreementParametersParser.java

1.614 joni 2.1.29

1.614.1 Available under license :

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* /joni-2-1-29-sources-6-jar/org/joni/Analyser.java
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1.615 proto-google-iam-v1 1.6.2

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/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/BindingDeltaOrBuilder.java/*
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/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/GetIamPolicyRequest.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/GetIamPolicyRequestOrBuilder.java/*
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/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/IamPolicyProto.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/OptionsProto.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/Policy.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/PolicyDelta.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/PolicyDeltaOrBuilder.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/PolicyOrBuilder.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/PolicyProto.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/SetIamPolicyRequest.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/SetIamPolicyRequestOrBuilder.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/TestIamPermissionsRequest.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/TestIamPermissionsRequestOrBuilder.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/TestIamPermissionsResponse.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/TestIamPermissionsResponseOrBuilder.java/*

/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/logging/AuditData.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/logging/AuditDataOrBuilder.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/logging/AuditDataProto.java/*
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/google/iam/v1/iam_policy.proto//
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/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/google/iam/v1/logging/audit_data.proto// Copyright 2017 Google Inc.
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/google/iam/v1/options.proto// Copyright 2019 Google LLC.
/opt/cola/permits/2825020733_1767959197.9684088/0/proto-google-iam-v1-1-6-2-sources-jar/google/iam/v1/policy.proto// Copyright 2019 Google LLC.

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*/
```

Found in path(s):
* /proto-google-iam-v1-1-6-2-sources-jar/com/google/iam/v1/AuditConfig.java

1.616 opensaml-profile-impl 4.3.0

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Found in path(s):
* package org.opensaml.profile.logic;
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/AbstractHandlerDelegatingProfileAction.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/AbstractProfileAction.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/ActionSupport.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/EventException.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/EventIds.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/ProfileAction.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/package-info.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/EventContext.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/MetricContext.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/PreviousEventContext.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/ProfileRequestContext.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/ProxiedRequesterContext.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/navigate/CurrentOrPreviousEventLookup.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/navigate/InboundMessageContextLookup.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/navigate/OutboundMessageContextLookup.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/navigate/ParentProfileRequestContextLookup.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/navigate/ProfileIdLookup.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/navigate/package-info.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/criterion/package-info.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/IPRangePredicate.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/NoConfidentialityMessageChannelPredicate.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/NoIntegrityMessageChannelPredicate.java/*

/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/PredicateAccessControl.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/ProfileIdPredicate.java/*
/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/package-info.java/*

Found
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/MessageContextPredicateAdapter.java/*

Found in path(s):
*
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/package-info.java/*

Found in path(s):
* package org.opensaml.profile.context.navigate;
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/context/AccessControlContext.java/*

Found in path(s):
* package org.opensaml.profile.action;
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/BrowserProfilePredicate.java/*

Found in path(s):
* package org.opensaml.profile.criterion;
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/criterion/ProfileRequestContextCriterion.java/*

Found in path(s):
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*/

Found in path(s):
* /opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/AbstractConditionalProfileAction.java

1.617 google-api-client 2.1.1

1.617.1 Available under license :

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Manifest-Version: 1.0
Implementation-Title: Google APIs Client Library for Java
Bundle-Description: The Google API Client Library for Java provides fu
nctionality common to all Google APIs; for example HTTP transport, er
ror handling, authentication, JSON parsing, media download/upload, an
d batching.
Automatic-Module-Name: google.api.client
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.api.client.googleapis
Implementation-Version: 2.1.1
Bnd-LastModified: 1670014796453
Bundle-ManifestVersion: 2
Bundle-DocURL: https://developers.google.com/api-client-library/java/
Bundle-Vendor: Google
Import-Package: com.google.api.client.auth.oauth2;version="[1.34,2)",c
om.google.api.client.auth.openidconnect;version="[1.34,2)",com.google
.api.client.googleapis,com.google.api.client.googleapis.auth.oauth2,c
om.google.api.client.googleapis.batch,com.google.api.client.googleapi
s.batch.json,com.google.api.client.googleapis.json,com.google.api.cli
 ent.googleapis.media,com.google.api.client.googleapis.mtls,com.google
.api.client.googleapis.notifications,com.google.api.client.googleapis
.services,com.google.api.client.googleapis.services.json,com.google.a
pi.client.googleapis.testing,com.google.api.client.googleapis.util,co

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n.gson,com.google.api.client.json.webtoken;version="[1.42,2)",com.goo
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rg.apache.http.conn.ssl,org.apache.http.impl.client,org.apache.http.i
mpl.conn
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Google
Export-Package: com.google.api.client.googleapis.json;uses:="com.googl
e.api.client.http,com.google.api.client.json,com.google.api.client.ut
il";version="2.1.1",com.google.api.client.googleapis.mtls;uses:="com.
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om.google.api.client.json,com.google.api.client.util";version="2.1.1"
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e.api.client.googleapis.json,com.google.api.client.googleapis.service
s,com.google.api.client.http,com.google.api.client.json,com.google.ap
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lient.json";version="2.1.1",com.google.api.client.googleapis.testing.

auth.oauth2;uses:="com.google.api.client.auth.oauth2,com.google.api.c
lient.googleapis.auth.oauth2,com.google.api.client.http,com.google.ap
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t.util";version="2.1.1",com.google.api.client.googleapis.testing;vers
ion="2.1.1",com.google.api.client.googleapis.testing.notifications;us
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com.google.api.client.googleapis.testing.compute;uses:="com.google.ap
i.client.http,com.google.api.client.testing.http";version="2.1.1",com
.google.api.client.googleapis.testing.services.json;uses:="com.google
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ion="2.1.1",com.google.api.client.googleapis.testing.services;uses:="
com.google.api.client.googleapis.services,com.google.api.client.http,
com.google.api.client.util";version="2.1.1",com.google.api.client.goo
gleapis.apache.v2;uses:="com.google.api.client.googleapis.mtls,com.go
ogle.api.client.http.apache.v2";version="2.1.1",com.google.api.client
.googleapis.util;uses:="com.google.api.client.http,com.google.api.cli
ent.json";version="2.1.1",com.google.api.client.googleapis.javanet;us
es:="com.google.api.client.googleapis.mtls,com.google.api.client.http
.javanet";version="2.1.1"
Bundle-Name:
Google APIs Client Library for Java
Bundle-Version: 2.1.1
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /google-api-client-2-1-1-2-jar/META-INF/MANIFEST.MF

1.618 jackson-annotations 2.15.0

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.619 opensaml-xmlsec-api 4.3.0

1.619.1 Available under license :

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* package org.opensaml.xmlsec.config;
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*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/schema/xenc11-schema.xsd<?xml version="1.0" encoding="utf-8"?>

Found in path(s):
* package org.opensaml.xmlsec.signature.support;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/algorithm/package-info.java/*

Found in path(s):
* package org.opensaml.xmlsec.algorithm.descriptors;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/keyinfo/KeyInfoCredentialResolutionMode.java/*

Found in path(s):
* package org.opensaml.xmlsec.encryption.support;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/AbstractEncryptedKeyResolver.java/*

Found in path(s):
* package org.opensaml.xmlsec.encryption;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/package-info.java/*

Found in path(s):

* package org.opensaml.xmlsec.keyinfo;
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/AlgorithmPolicyConfiguration.java
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/AlgorithmPolicyParameters.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/DecryptionConfiguration.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/DecryptionParameters.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/DecryptionParametersResolver.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/EncryptionParameters.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/SignatureSigningParameters.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/SignatureSigningParametersResolver.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/context/package-info.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/criterion/SignatureSigningConfigurationCriterion.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/ConcatKDFParams.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/IterationCount.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/KeyDerivationMethod.java/*

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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/DefaultPreDecryptionValidator.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/InlineEncryptedKeyResolver.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/KeyAgreementEncryptionConfiguration.java/*

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/PreDecryptionValidationException.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/SimpleRetrievalMethodEncryptedKeyResolver.java/*
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/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/package-info.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/ContentReference.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/DocumentInternalIDContentReference.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignatureConstants.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignatureException.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignaturePrevalidator.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignatureSupport.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignatureValidationParametersCriterion.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignatureValidator.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/Signer.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignerProvider.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/URIContentReference.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/XMLSignatureCredentialContext.java/*
/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/package-info.java/*

Found
in path(s):
* }
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/config/DecryptionParserPool.java/*

Found in path(s):
* package org.opensaml.xmlsec.algorithm;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/crypto/XMLSigningUtil.java/*

Found in path(s):
* package org.opensaml.xmlsec.criterion;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/encryption/AgreementMethod.java/*

Found in path(s):
* package org.opensaml.xmlsec.derivation;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/AbstractSignableXMLObject.java/*

Found in path(s):
* package org.opensaml.xmlsec;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/criterion/DecryptionConfigurationCriterion.java/*

Found in path(s):
* package org.opensaml.xmlsec.context;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/algorithm/AlgorithmDescriptor.java/*

Found in path(s):
* package org.opensaml.xmlsec.agreement;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020869_1768291314.0259428/0/opensaml-xmlsec-api-4-3-0-sources-jar/org/opensaml/xmlsec/signature/support/ConfigurableContentReference.java/*

Found in path(s):
* package org.opensaml.xmlsec.signature;

1.620 opensaml-storage-impl 4.3.0

1.620.1 Available under license :

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/MemoryStorageService.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/ClientStorageLoadContext.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/ClientStorageSaveContext.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/ClientStorageService.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/ClientStorageServiceOperation.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/LoadClientStorageServices.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/LogLocalStorageSaveResults.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/PopulateClientStorageLoadContext.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/PopulateClientStorageSaveContext.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/SaveCookieBackedClientStorageServices.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/client/package-info.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/memcached/MemcachedStorageRecord.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/memcached/StorageRecordTranscoder.java/*

Found
in path(s):
* }
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/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/JPAStorageService.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/LDAPStorageService.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/memcached/MemcachedStorageService.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/memcached/StringTranscoder.java/*
/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-

jar/org/opensaml/storage/impl/memcached/package-info.java/*

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

Found in path(s):
* package org.opensaml.storage.impl;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/memcached/MemcachedStorageCapabilities.java/*

Found in path(s):
* package org.opensaml.storage.impl.client;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020973_1768291681.448136/0/opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/package-info.java/*

Found in path(s):
* package org.opensaml.storage.impl.memcached;
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Found in path(s):
* /opensaml-storage-impl-4-0-1-sources-2-jar/org/opensaml/storage/impl/JPAStorageRecord.java

1.621 opensaml-messaging-api 4.3.0

1.621.1 Available under license :

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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/logic/NoConfidentialityMessageChannelPredicate.java/*

Found in path(s):
* package org.opensaml.messaging.handler;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/servlet/AbstractHttpServletResponseMessageEncoder.java/*

Found in path(s):
* package org.opensaml.messaging.encoder;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/MessageErrorHandler.java/*

Found in path(s):
* package org.opensaml.messaging.encoder.servlet;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/package-info.java/*

Found in path(s):
* package org.opensaml.messaging.encoder.httpclient;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/package-info.java/*

Found in path(s):
* package org.opensaml.messaging.logic;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/servlet/BasicHttpServletMessagePipeline.java/*

Found in path(s):
* package org.opensaml.messaging.pipeline;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/AbstractMessageEncoder.java/*

Found in path(s):
* package org.opensaml.messaging.decoder.servlet;
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Found in path(s):
* /opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/MessageException.java
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/BasicMessagePipeline.java/*

Found in path(s):
* package org.opensaml.messaging;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/package-info.java/*

Found in path(s):
* package org.opensaml.messaging.context.navigate;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/AbstractMessageDecoder.java/*

Found in path(s):
* package org.opensaml.messaging.context;

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/servlet/AbstractHttpServletMessageErrorHandler.java/*

Found in path(s):
* package org.opensaml.messaging.error;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/MessageRuntimeException.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/BaseContext.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/MessageChannelSecurityContext.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/ScratchContext.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/httpclient/HttpClientRequestContext.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/ContextDataLookupFunction.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/MessageContextLookup.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/ParentContextLookup.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/RecursiveTypedParentContextLookup.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/RootContextLookup.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/MessageDecoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/MessageDecodingException.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/httpclient/AbstractHttpClientResponseMessageDecoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/httpclient/BaseHttpClientResponseXMLMessageDecoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/httpclient/HttpClientResponseMessageDecoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/httpclient/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/servlet/BaseHttpServletRequestXMLMessageDecoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/servlet/HttpServletRequestMessageDecoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-

jar/org/opensaml/messaging/decoder/servlet/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/MessageEncoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/MessageEncodingException.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/httpclient/AbstractHttpClientRequestMessageEncoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/httpclient/BaseHttpClientRequestXMLMessageEncoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/servlet/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/PipelineMessageErrorHandler.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/TypedMessageErrorHandler.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/servlet/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/handler/MessageHandler.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/handler/MessageHandlerChain.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/handler/MessageHandlerException.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/handler/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/logic/NoIntegrityMessageChannelPredicate.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/logic/package-info.java/*

Found
in path(s):
* }
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Found in path(s):
* package org.opensaml.messaging.pipeline.servlet;
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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/handler/AbstractMessageHandler.java/*

Found in path(s):
* package org.opensaml.messaging.error.servlet;

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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/servlet/AbstractHttpServletRequestMessageDecoder.java/*

Found in path(s):
* package org.opensaml.messaging.decoder;
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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/ChildContextLookup.java/*

Found in path(s):
* package org.opensaml.messaging.context.httpclient;
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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/InOutOperationContext.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/MessageContext.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/httpclient/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/context/navigate/MessageLookup.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/httpclient/HttpClientRequestMessageEncoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/httpclient/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/servlet/BaseHttpServletResponseXMLMessageEncoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/encoder/servlet/HttpServletResponseMessageEncoder.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/error/servlet/HttpServletMessageErrorHandler.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/MessagePipeline.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/StaticPipelineNameStrategy.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/httpclient/BasicHttpClientMessagePipeline.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/httpclient/HttpClientMessagePipeline.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/httpclient/HttpClientMessagePipelineFactory.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/httpclient/package-info.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/servlet/HttpServletMessagePipeline.java/*

/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/servlet/HttpServletMessagePipelineFactory.java/*
/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/servlet/package-info.java/*

Found
in path(s):
*
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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/decoder/package-info.java/*

Found in path(s):
* package org.opensaml.messaging.decoder.httpclient;
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/opt/cola/permits/2825020884_1768290947.2058747/0/opensaml-messaging-api-4-3-0-sources-jar/org/opensaml/messaging/pipeline/package-info.java/*

Found in path(s):
* package org.opensaml.messaging.pipeline.httpclient;

1.622 opensaml-messaging-impl 4.3.0

1.622.1 Available under license :

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Found in path(s):
* /opensaml-messaging-impl-4-3-0-sources-

jar/org/opensaml/messaging/handler/impl/AbstractMessageChannelSecurity.java
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/BasicMessageHandlerChain.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/CheckExpectedIssuer.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/CheckMandatoryAuthentication.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/CheckMandatoryIssuer.java/*
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/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/HTTPRequestValidationHandler.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/MessageHandlerErrorStrategyAdapter.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/SchemaValidateXMLMessage.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/StaticMessageChannelSecurity.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/URLEvaluatingMessageChannelSecurity.java/*
/opt/cola/permits/2825020904_1768291505.24994/0/opensaml-messaging-impl-4-3-0-sources-jar/org/opensaml/messaging/handler/impl/package-info.java/*

Found
in path(s):
* }
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Found in path(s):
* package org.opensaml.messaging.handler.impl;

1.623 opensaml-saml-impl 4.3.0

1.623.1 Available under license :

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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/SubjectImpl.java
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 /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/EvidenceUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-
jar/org/opensaml/saml/ext/saml2mdquery/impl/AuthzDecisionQueryDescriptorTypeBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/SubjectLocalityBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/SubjectConfirmationBuilder.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/AttributeImpl.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/AttributeValueBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthenticationStatementImpl.java
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/EncryptedElementTypeImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/StatusUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2alg/impl/DigestMethodBuilder.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AttributeQueryBuilder.java
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 /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/StatusMessageBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/samlec/impl/SessionKeyBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/impl/package-info.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/StatusCodeMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-

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* /opensaml-saml-impl-4-3-0-sources-
jar/org/opensaml/saml/saml1/binding/encoding/impl/HTTPArtifactEncoder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AdviceMarshaller.java
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/profile/impl/DecryptAssertions.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/ArtifactResponseImpl.java
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/wssecurity/messaging/impl/package-info.java
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* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/StatusResponseTypeMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdui/impl/InformationURLBuilder.java
* /opensaml-saml-impl-4-3-0-sources-
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/opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdui/impl/DomainHintBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/ConditionsUnmarshaller.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthorityBindingImpl.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/TerminateMarshaller.java

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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2delrestrict/impl/DelegateUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/RequestedAuthnContextUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/samlec/impl/EncTypeImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/EvidenceImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/metadata/resolver/impl/ResourceBackedMetadataResolver.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/config/impl/package-info.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthenticationQueryMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/binding/impl/AddConsentToResponseHandler.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/EntitiesDescriptorUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/OrganizationURLImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2alg/impl/DigestMethodMarshaller.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/metadata/resolver/index/impl/MetadataIndexSupport.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/StatusBuilder.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/profile/impl/ChainingSAML2NameIDGenerator.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/SubjectUnmarshaller.java

* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdui/impl/PrivacyStatementURLBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/profile/impl/ResolveArtifacts.java
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/AuthnQueryMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdquery/impl/AuthnQueryDescriptorTypeUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/AttributeProfileBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/NameIDPolicyImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/assertion/impl/AssertionValidationSupport.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthorizationDecisionQueryMarshaller.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/EncryptionMethodImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/metadata/resolver/impl/SAMLArtifactURLBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/assertion/impl/DelegationRestrictionConditionValidator.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/IndexedEndpointImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdquery/impl/AuthnQueryDescriptorTypeBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdquery/impl/ActionNamespaceImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2mdquery/impl/AuthnQueryDescriptorTypeMarshaller.java
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/AuthnAuthorityDescriptorUnmarshaller.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/ArtifactResponseBuilder.java

* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/NameIDFormatBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/AttributeBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/profile/impl/AddStatusToResponse.java
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* Project home: https://projects.eclipse.org/projects/ee4j.jaf

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf

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/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Maps.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/NanoClock.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/NullValue.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/ObjectParser.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Objects.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/PemReader.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Preconditions.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/SecurityUtils.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Sets.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Sleeper.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/SslUtils.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/StreamingContent.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/StringUtils.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Strings.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Throwables.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Types.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/Value.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/escape/CharEscapers.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/escape/Escaper.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/escape/PercentEscaper.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/escape/Platform.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/escape/UnicodeEscaper.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-

jar/com/google/api/client/util/escape/package-info.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/package-info.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/AbstractDataStore.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/AbstractDataStoreFactory.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/AbstractMemoryDataStore.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/DataStore.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/DataStoreFactory.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/DataStoreUtils.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/FileDataStoreFactory.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/MemoryDataStoreFactory.java/*
/opt/cola/permits/2825020682_1767958970.6406999/0/google-http-client-1-42-3-sources-1-jar/com/google/api/client/util/store/package-info.java/*

Found
in path(s):
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*/

Found in path(s):
* /google-http-client-1-42-3-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java

1.627 s2-geometry-library-java 1.0.1

1.627.1 Available under license :

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-->

Found in path(s):
* /s2-geometry-library-java-1-0-1-jar/META-INF/maven/io.sgr/s2-geometry-library-java/pom.xml
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825001078_1767959342.4879613/0/s2-geometry-library-java-1-0-1-jar/com/google/common/geometry/S2LatLngRect.class intersectsLngEdge
/opt/cola/permits/2825001078_1767959342.4879613/0/s2-geometry-library-java-1-0-1-jar/com/google/common/geometry/S2LatLngRect.class intersectsLatEdge

Found in path(s):
*

1.628 opentelemetry-context 1.31.0

1.628.1 Available under license :

Apache-2.0

1.629 dsl-json 1.9.3

1.629.1 Available under license :

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/opt/cola/permits/2825020830_1767958915.1372945/0/dsl-json-1-9-3-sources-3-

jar/com/dslplatform/json/Grisu3.java// Copyright 2010 the V8 project authors. All rights reserved.

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

package com.dslplatform.json;

Found in path(s):
* /dsl-json-1-9-3-sources-3-jar/com/dslplatform/json/Base64.java

1.630 log4j2-ecs-layout 1.2.0

1.630.1 Available under license :

ecs-logging-java
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1.631 flatbuffers-java 23.5.26

1.631.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1685122536360
Build-Jdk: 11.0.19
Built-By: runner
Bundle-Description: Memory Efficient Serialization Library
Bundle-License: https://raw.githubusercontent.com/google/flatbuffers/m

aster/LICENSE
Bundle-ManifestVersion: 2
Bundle-Name: FlatBuffers Java API
Bundle-SymbolicName: com.google.flatbuffers.java
Bundle-Version: 23.5.26
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.flatbuffers;version="23.5.26",com.google.fl
atbuffers.reflection;uses:="com.google.flatbuffers";version="23.5.26"
Import-Package: com.google.flatbuffers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /flatbuffers-java-23-5-26-3-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

<name>Apache License V2.0</name>

Found in path(s):
* /flatbuffers-java-23-5-26-3-jar/META-INF/maven/com.google.flatbuffers/flatbuffers-java/pom.xml

1.632 jline-style 3.21.0

1.632.1 Available under license :

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/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/InterpolationHelper.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/NopStyleSource.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleBundle.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleBundleInvocationHandler.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleColor.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleExpression.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleFactory.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleResolver.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyleSource.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/StyledWriter.java/*
/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/Styler.java/*

Found
in path(s):
*
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<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
* /jline-style-3-21-0-sources-6-jar/META-INF/maven/org.jline/jline-style/pom.xml
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/opt/cola/permits/2825020622_1767959319.006761/0/jline-style-3-21-0-sources-6-jar/org/jline/style/MemoryStyleSource.java/*

Found in path(s):
* }

1.633 google-http-client-gson 1.42.3

1.633.1 Available under license :

Apache-2.0

1.634 jline-terminal 3.21.0

1.634.1 Available under license :

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/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/spi/JansiSupport.java/*

Found in path(s):
* package org.jline.terminal.impl;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/utils/rxvt-unicode-256color.caps# Reconstructed via infocmp from file: /lib/terminfo/r/rxvt-unicode-256color

Found in path(s):
* package org.jline.utils;
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/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/utils/Levenshtein.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-

jar/org/jline/utils/NonBlocking.java/*

Found in path(s):
* }
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/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/Attributes.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/Cursor.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/MouseEvent.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/Size.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/Terminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/TerminalBuilder.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/AbstractPosixTerminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/AbstractPty.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/AbstractTerminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/CursorSupport.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/DumbTerminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/ExecPty.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/ExternalTerminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/LineDisciplineTerminal.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/MouseSupport.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/terminal/impl/NativeSignalHandler.java/*
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/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/utils/package-info.java/*
/opt/cola/permits/2825020971_1767959140.9216723/0/jline-terminal-3-21-0-sources-6-jar/org/jline/utils/rxvt-unicode.caps# Reconstructed
via infocmp from file: /lib/terminfo/r/rxvt-unicode

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1.635 activation-api 1.2.1

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1.636 jts-core 1.15.0

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Json-schema-validator
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1.640 jna 5.12.1

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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This software consists of voluntary contributions made by many
individuals on behalf of the JDOM Project and was originally
created by Jason Hunter <jhunter_AT_jdom_DOT_org> and
Brett McLaughlin <brett_AT_jdom_DOT_org>. For more information

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The primary ANTLR guy:

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onoMnApeShTpQtDJbcUgJTIFONPQeUndIgfQWWNNddIwBl
mi2Kp5RjfhIJdGCSo<bOTNof2KNxm9KCi5lxEyKI9BJW3p
qOPQUXpopOopMMPqnPnXXQPNOPNRnqQNQqStwVxuQSTtVW
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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to

avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
No source code of the original library was modified.
==========

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework
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jar/org/opensaml/saml/metadata/resolver/index/impl/FunctionDrivenMetadataIndex.java
* /opensaml-saml-impl-4-3-0-sources-
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/StatusCodeMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AttributeDesignatorUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/samlec/impl/SessionKeyMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-
jar/org/opensaml/saml/metadata/resolver/impl/AbstractBatchMetadataResolver.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/AdviceBuilder.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthorityBindingMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/NewIDBuilder.java
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/LogoutRequestImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AttributeDesignatorBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/LogoutRequestUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/ArtifactResponseUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/ExtensionsBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/RequestBuilder.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/profile/impl/AddNameIDToSubjects.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/EmailAddressImpl.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/ResponseImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/ConditionsMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/ManageNameIDResponseImpl.java
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/AttributeQueryMarshaller.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/reqattr/impl/RequestedAttributesUnmarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2delrestrict/impl/DelegateImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/OrganizationMarshaller.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/NameIDMappingServiceImpl.java
* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/ArtifactResponseMarshaller.java
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* /opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/CompanyImpl.java
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/opensaml-saml-impl-4-3-0-sources-jar/org/opensaml/saml/ext/saml2cb/impl/ChannelBindingsBuilder.java

1.643 jackson-dataformat-cbor 2.15.0

1.643.1 Available under license :

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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Credits

A list of contributors may be found from CREDITS file, which is included
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1.644 opensaml-profile-api 4.3.0

1.644.1 Available under license :

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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-
jar/org/opensaml/profile/action/AbstractHandlerDelegatingProfileAction.java/*
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/logic/package-info.java/*

Found
in path(s):
* }
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* package org.opensaml.profile.logic;
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* package org.opensaml.profile.action;
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* package org.opensaml.profile.criterion;
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/opt/cola/permits/2825020962_1768291046.283476/0/opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/criterion/ProfileRequestContextCriterion.java/*

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* /opensaml-profile-api-4-3-0-sources-jar/org/opensaml/profile/action/AbstractConditionalProfileAction.java

1.645 opentelemetry-semconv 1.21.0-alpha

1.645.1 Available under license :

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1.646 jline-reader 3.21.0

1.646.1 Available under license :

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* package org.jline.reader;
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/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/KillRing.java/*
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/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/ReaderUtils.java/*
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/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/UndoTree.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/AggregateCompleter.java/*
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/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/EnumCompleter.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/FileNameCompleter.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/NullCompleter.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/StringsCompleter.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/SystemCompleter.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/completer/package-info.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/history/DefaultHistory.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/history/package-info.java/*
/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/package-info.java/*

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in path(s):
*
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/opt/cola/permits/2825020640_1767959319.8128185/0/jline-reader-3-21-0-sources-5-jar/org/jline/reader/impl/DefaultExpander.java/*

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* }

1.647 opensaml-security-api 4.3.0

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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962prime239v2.java
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 /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/httpclient/HttpClientSecurityContextHandler.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/httpclient/HttpClientSecurityParameters.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/CredentialResolver.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp112r2.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/BrainpoolP320r1.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/httpclient/HttpClientSecurityConstants.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/trust/TrustEngine.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect409k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/dh/DHSupport.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp160r2.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962c2tnb239v3.java

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/opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/X500DNHandler.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/criteria/UsageCriterion.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp256k1.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp192r1.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/config/GlobalNamedCurveRegistryInitializer.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/messaging/package-info.java
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/opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/BasicX509Credential.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962c2tnb239v2.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect233k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962c2tnb191v3.java
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jar/org/opensaml/security/x509/tls/ClientTLSValidationParametersResolver.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect163r2.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/SigningUtil.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect571k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962c2tnb191v2.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/PKIXValidationInformationResolver.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/tls/CertificateNameOptions.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/KeySupport.java

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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp128r1.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp384r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/Credential.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect113r2.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/InternalX500DNHandler.java
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* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp112r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect239k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/ECSupport.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect163k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/TrustedNamesCriterion.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962prime239v3.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/UsageType.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/package-info.java
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 /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect131r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962prime239v1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962c2tnb359v1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/criteria/KeyAlgorithmCriterion.java
* /opensaml-security-api-4-3-0-sources-
jar/org/opensaml/security/messaging/ServletRequestX509CredentialAdapter.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/trust/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/SecurityException.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect283r1.java
* /opensaml-security-api-4-3-0-sources-
jar/org/opensaml/security/messaging/ClientTLSSecurityParametersContext.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp224k1.java
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 /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/NamedCurve.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect193r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect113r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/criteria/PublicKeyCriterion.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/X509SubjectNameCriterion.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962prime192v2.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/CredentialContextSet.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/AbstractNamedCurve.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/dh/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/PKIXValidationInformation.java
*

/opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/PKIXValidationOptions.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/criteria/KeyNameCriterion.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Secp160k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/httpclient/TLSCriteriaSetCriterion.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/MutableCredential.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/tls/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/BrainpoolP384r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/X509Credential.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect163r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/criteria/PeerEntityIDCriterion.java
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/opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect283k1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/X962prime192v3.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/x509/tls/ClientTLSValidationConfiguration.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/criteria/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/trust/TrustedCredentialTrustEngine.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/ec/curves/Sect409r1.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/httpclient/HttpClientSecurityConfiguration.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/crypto/JCAConstants.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/package-info.java
* /opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/AbstractCredential.java
*
/opensaml-security-api-4-3-0-sources-jar/org/opensaml/security/credential/CredentialContext.java

1.648 grpc-context 1.49.2

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1.649 opensaml-security-impl 4.3.0

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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/impl/ChainingCredentialResolver.java
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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableEntityIDCredentialCriterion.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/config/impl/HttpClientSecurityConfigurationInitalizer.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluablePublicKeyCredentialCriterion.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/trust/impl/ExplicitX509CertificateTrustEvaluator.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/trust/impl/TrustEngineX509TrustManager.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableKeyLengthCredentialCriterion.java
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/opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/tls/impl/ThreadLocalX509TrustEngineSupport.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/messaging/impl/package-info.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/impl/CertPathPKIXTrustEvaluator.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/tls/impl/ThreadLocalX509TrustEngineContext.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/impl/CertPathPKIXValidationOptions.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/impl/package-info.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/tls/impl/ThreadLocalX509CredentialKeyManager.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/impl/AbstractCredentialResolver.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/tls/impl/BasicClientTLSValidationParametersResolver.java
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/opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/httpclient/impl/BasicHttpClientSecurityParametersResolver.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/trust/impl/package-info.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableX509DigestCredentialCriterion.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableCredentialCriterion.java
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* /opensaml-security-impl-4-3-0-sources-
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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/trust/impl/ExplicitKeyTrustEvaluator.java
* /opensaml-security-impl-4-3-0-sources-
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* /opensaml-security-impl-4-3-0-sources-
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* /opensaml-security-impl-4-3-0-sources-
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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableKeyAlgorithmCredentialCriterion.java
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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableKeyNameCredentialCriterion.java
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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/package-info.java
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* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/x509/impl/BasicX509CredentialNameEvaluator.java
* /opensaml-security-impl-4-3-0-sources-jar/org/opensaml/security/httpclient/impl/ThreadLocalClientTLSCredentialHandler.java

1.650 jline-terminal-jna 3.21.0

1.650.1 Available under license :

No license file was found, but licenses were detected in source scan.

<?xml version="1.0" encoding="UTF-8"?>

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1.651 jts 1.15.0

1.651.1 Available under license :

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jar/org/locationtech/jts/util/Stopwatch.java

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1.652 opensaml-soap-api 4.3.0

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/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wssecurity/Reference.java/*
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/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/Status.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/TokenType.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/UseKey.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/ValidateTarget.java/*

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/WSTrustConstants.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/WSTrustObject.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wstrust/WSTrustObjectBuilder.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/oasis-200401-wss-wssecurity-utility-1.0.xsd<?xml
version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/oasis-wss-wssecurity-secext-1.1.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/soap-envelope.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/ws-addr.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/ws-policy.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/ws-trust-1.3.xsd<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/util/WSAddressingSupport.java/*

Found in path(s):
* package org.opensaml.soap.wsaddressing;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/package-info.java/*

Found in path(s):
* package org.opensaml.soap.wsaddressing.messaging;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/util/SOAPConstants.java/*

Found in path(s):
* package org.opensaml.soap.soap12;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wsfed/Address.java/*

Found in path(s):
* package org.opensaml.soap.wsaddressing.util;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wssecurity/util/WSSecuritySupport.java/*

Found in path(s):
* package org.opensaml.soap.wssecurity;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/messaging/AbstractHeaderGeneratingMessageHandler.java/*

Found in path(s):
* package org.opensaml.soap.common;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wsaddressing/Action.java/*

Found in path(s):
* package org.opensaml.soap.util;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/client/security/SOAPClientSecurityContext.java/*

Found in path(s):
* package org.opensaml.soap.client;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/client/messaging/SOAPClientDestinationURILookup.java/*

Found in path(s):
* package org.opensaml.soap.client.http;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/common/AbstractExtensibleSOAPObject.java/*

Found in path(s):
* package org.opensaml.soap.client.security;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-

jar/org/opensaml/soap/wstrust/AllowPostdating.java/*

Found in path(s):
* package org.opensaml.soap.wssecurity.util;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/soap11/ActorBearing.java/*

Found in path(s):
* package org.opensaml.soap.messaging;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wssecurity/AttributedDateTime.java/*

Found in path(s):
* package org.opensaml.soap.wspolicy;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/wspolicy/All.java/*

Found in path(s):
* package org.opensaml.soap.wsfed;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/soap12/EncodingStyleBearing.java/*

Found in path(s):
* package org.opensaml.soap.soap11;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/schema/oasis-200401-wss-wssecurity-secext-1.0.xsd<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
* package org.opensaml.soap.wstrust;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/client/SOAPClientContext.java/*
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jar/org/opensaml/soap/client/http/AbstractPipelineHttpSOAPClient.java/*
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/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/client/http/HttpSOAPRequestParameters.java/*
/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/client/http/PipelineFactoryHttpSOAPClient.java/*
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Found
in path(s):
* }
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020933_1768291599.6251655/0/opensaml-soap-api-4-3-0-sources-jar/org/opensaml/soap/messaging/package-info.java/*

Found in path(s):
* package org.opensaml.soap.messaging.context;

1.653 opensaml-saml-api 4.3.0

1.653.1 Available under license :

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdrpi/Publication.java/*

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* package org.opensaml.saml.ext.saml2mdreqinit;
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/context/package-info.java/*

Found in path(s):
* package org.opensaml.saml.common.messaging.context.navigate;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2cb/ChannelBindings.java/*

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* package org.opensaml.saml.ext.saml2aslo;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/AbstractSAMLObjectMarshaller.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthnContextDecl.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthnQuery.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthzDecisionQuery.java/*

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/BaseID.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Conditions.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/DecisionTypeEnumeration.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/EncryptedAssertion.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/EncryptedElementType.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Evidence.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Evidentiary.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/GetComplete.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/IDPEntry.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/IDPList.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Issuer.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/KeyInfoConfirmationDataType.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/ManageNameIDRequest.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NameID.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NameIDMappingRequest.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NameIDPolicy.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NameIDType.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NewEncryptedID.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NewID.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/OneTimeUse.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/ProxyRestriction.java/*

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/RequestAbstractType.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/RequestedAuthnContext.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Response.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Status.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/StatusMessage.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/SubjectConfirmation.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/SubjectQuery.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/encryption/Encrypter.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/AffiliateMember.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/AffiliationDescriptor.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/AuthzService.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/Company.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/ContactPerson.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/ContactPersonTypeEnumeration.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/EmailAddress.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/EncryptionMethod.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/Endpoint.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/EntitiesDescriptor.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/GivenName.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/IDPSSODescriptor.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/IndexedEndpoint.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/LocalizedName.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/ManageNameIDService.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/Organization.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/OrganizationName.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/PDPDescriptor.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/RequestedAttribute.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/RoleDescriptor.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/ServiceName.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/SingleLogoutService.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/SingleSignOnService.java/*
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/SAML2ActionSupport.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/SAML2NameIDGenerator.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/SAML2ObjectSupport.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/context/EncryptionContext.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/context/package-info.java/*

Found
in path(s):
* }
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/EntityGroupName.java/*

Found in path(s):
* package org.opensaml.saml.ext.samlpthrpty;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/binding/artifact/AbstractSAML1Artifact.java/*

Found in path(s):
* package org.opensaml.saml.metadata.support;

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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/ecp/RelayState.java/*

Found in path(s):
* package org.opensaml.saml.saml2.core;
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2alg/DigestMethod.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml1md;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/xml/SAMLConstants.java/*

Found in path(s):
* package org.opensaml.saml.common.profile;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdquery/ActionNamespace.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml2mdattr;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/AdditionalMetadataLocation.java/*

Found in path(s):
* package org.opensaml.saml.saml2.encryption;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2delrestrict/Delegate.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml2cb;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdreqinit/RequestInitiator.java/*

Found in path(s):

* package org.opensaml.saml.ext.saml2mdquery;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/package-info.java/*

Found in path(s):
* package org.opensaml.saml.metadata.criteria.role;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/binding/AbstractEndpointResolver.java/*

Found in path(s):
* package org.opensaml.saml.common.assertion;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/support/AttributeConsumingServiceSelector.java/*

Found in path(s):
* package org.opensaml.saml.metadata.resolver;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/package-info.java/*

Found in path(s):
* package org.opensaml.saml.common.messaging.logic;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/assertion/ConditionValidator.java/*

Found in path(s):
* package org.opensaml.saml.saml1.profile;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/binding/artifact/AbstractSAML2Artifact.java/*

Found in path(s):
* package org.opensaml.saml.saml2.assertion;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2aslo/Asynchronous.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml2alg;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/profile/AbstractNameIdentifierGenerator.java/*

Found in path(s):
* package org.opensaml.saml.common;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/BatchMetadataResolver.java/*

Found in path(s):
* package org.opensaml.saml.metadata;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/encryption/Decrypter.java/*

Found in path(s):
* package org.opensaml.saml.saml2.ecp;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/profile/AbstractSAML1NameIdentifierGenerator.java/*

Found in path(s):
* package org.opensaml.saml.saml1.core;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/soap/SAMLSOAPClientContextBuilder.java/*

Found in path(s):
* package org.opensaml.saml.common.messaging;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/core/Action.java/*

Found in path(s):
* package org.opensaml.saml.saml1.binding.artifact;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/logic/ProxiedRequesterPredicate.java/*

Found in path(s):
* package org.opensaml.saml.common.messaging.context;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdui/Description.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml2mdrpi;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml1md/SourceID.java/*

Found in path(s):
* package org.opensaml.saml.ext.reqattr;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/assertion/ValidationContext.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/assertion/ValidationResult.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/binding/artifact/SAMLSourceLocationArtifact.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/binding/artifact/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/binding/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/context/AbstractAuthenticatableSAMLEntityContext.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/context/SAMLMetadataContext.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/context/navigate/SAMLMessageContextAuthenticationFunction.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/profile/logic/MetadataNameIdentifierFormatStrategy.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/config/SAMLConfiguration.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/criterion/ArtifactCriterion.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/criterion/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2delrestrict/DelegationRestrictionType.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2delrestrict/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-

jar/org/opensaml/saml/ext/saml2mdreqinit/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdrpi/PublicationInfo.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdrpi/PublicationPath.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdrpi/RegistrationInfo.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdrpi/RegistrationPolicy.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/criteria/entity/EvaluableEntityDescriptorCriterion.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/ChainingMetadataResolver.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/MetadataResolver.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/index/MetadataIndexKey.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/index/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/core/AttributeValue.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/core/AuthorizationDecisionStatement.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/core/RequestAbstractType.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/core/SubjectConfirmationData.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml1/core/SubjectQuery.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/assertion/StatementValidator.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/common/SAML2Support.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/ArtifactResponse.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthnContextClassRef.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthnContextDeclRef.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthnRequest.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthnStatement.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/AuthzDecisionStatement.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Extensions.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-

jar/org/opensaml/saml/saml2/core/LogoutRequest.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/LogoutResponse.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/ManageNameIDResponse.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/NameIDMappingResponse.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/RequesterID.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Scoping.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/SessionIndex.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/StatusDetail.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Subject.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Terminate.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/ecp/Request.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/ecp/RequestAuthenticated.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/ecp/SubjectConfirmation.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/encryption/EncryptedElementTypeEncryptedKeyResolver.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/encryption/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/KeyDescriptor.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/LocalizedURI.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/SSODescriptor.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/metadata/ServiceDescription.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/wssecurity/package-info.java/*
/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/schema/sstc-saml-metadata-algsupport-v1.0.xsd<?xml
version="1.0" encoding="UTF-8"?>

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/package-info.java/*

Found in path(s):
* package org.opensaml.saml.common.messaging.soap;
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Found in path(s):
* /opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/AbstractSAMLObjectBuilder.java
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/profile/package-info.java/*

Found in path(s):
* package org.opensaml.saml.common.profile.logic;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/messaging/SAMLMessageSecuritySupport.java/*

Found in path(s):
* package org.opensaml.saml.common.binding;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/index/MetadataIndex.java/*

Found in path(s):
* package org.opensaml.saml.metadata.resolver.filter;

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/idpdisco/DiscoveryResponse.java/*

Found in path(s):
* package org.opensaml.saml.criterion;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/wssecurity/SAML20AssertionToken.java/*

Found in path(s):
* package org.opensaml.saml.saml2.profile;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/package-info.java/*

Found in path(s):
* package org.opensaml.saml.saml2.profile.context;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/schema/sstc-req-attr-ext.xsd<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
* </schema>
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/core/Action.java/*

Found in path(s):
* package org.opensaml.saml.saml2.common;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/schema/saml-metadata-rpi-v1.0.xsd<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
* package org.opensaml.saml.saml2.wssecurity;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/reqattr/RequestedAttributes.java/*

Found in path(s):

* package org.opensaml.saml.ext.idpdisco;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/resolver/package-info.java/*

Found in path(s):
* package org.opensaml.saml.metadata.resolver.index;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/samlec/EncType.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml2mdui;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/metadata/criteria/role/EvaluableRoleDescriptorCriterion.java/*

Found in path(s):
* package org.opensaml.saml.metadata.criteria.entity;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/binding/decoding/SAMLMessageDecoder.java/*

Found in path(s):
* package org.opensaml.saml.common.binding.artifact;
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/common/binding/encoding/SAMLMessageEncoder.java/*

Found in path(s):
* package org.opensaml.saml.common.binding.decoding;
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/profile/AbstractSAML2NameIDGenerator.java/*

Found in path(s):
* package org.opensaml.saml.saml2.metadata;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/samlpthrpty/RespondTo.java/*

Found in path(s):
* package org.opensaml.saml.ext.samlec;
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/ext/saml2mdattr/EntityAttributes.java/*

Found in path(s):
* package org.opensaml.saml.ext.saml2delrestrict;
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/opt/cola/permits/2825020979_1768321430.566764/0/opensaml-saml-api-4-0-1-sources-2-jar/org/opensaml/saml/saml2/common/CacheableSAMLObject.java/*

Found in path(s):
* package org.opensaml.saml.saml2.binding.artifact;

1.654 ecs-logging-core 1.2.0

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##

1.655 api-common 2.3.1

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* /proto-google-common-protos-2-9-6-3-jar/google/type/date.proto
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1.661 jakarta-servlet-api 5.0.2

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independent module, the terms and conditions of the license of that
module. An independent module is a module which is not derived from or
based on this library. If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so. If you do not wish to do so, delete this exception statement
from your version.

==========
Jetty Web Container
Copyright 1995-2018 Mort Bay Consulting Pty Ltd.
==========

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

 * The Apache 2.0 License
   http://www.apache.org/licenses/LICENSE-2.0.html

     and

 * The Eclipse Public 1.0 License
   http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

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

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
modified April 2001 by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all
copies.

1.662 jakarta-servlet-api 5.0.0

1.662.1 Available under license :

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/AsyncContext.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/AsyncEvent.java/*
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jar/jakarta/servlet/GenericFilter.java/*
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/LocalStrings_ja.properties#
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/ReadListener.java/*
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jar/jakarta/servlet/ServletRequestAttributeListener.java/*
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/annotation/HttpConstraint.java/*
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/descriptor/JspPropertyGroupDescriptor.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/descriptor/TaglibDescriptor.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-

jar/jakarta/servlet/descriptor/package.html<!DOCTYPE
 html PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/HttpSessionListener.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/HttpUpgradeHandler.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/HttpUtils.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/LocalStrings.properties#
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/LocalStrings_es.properties#
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/LocalStrings_ja.properties#
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/MappingMatch.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/Part.java/*

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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/WebConnection.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/package.html<!--
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/j2ee_web_services_1_1.xsd<?xml
 version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/j2ee_web_services_client_1_1.xsd<?xml version="1.0" encoding="UTF-8"?>
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/jakartaee_web_services_client_2_0.xsd<?xml
 version="1.0" encoding="UTF-8"?>
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/javaee_6.xsd<?xml version="1.0" encoding="UTF-8"?>
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 version="1.0" encoding="UTF-8"?>
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/javaee_web_services_1_4.xsd<?xml version="1.0" encoding="UTF-8"?>
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/javaee_web_services_client_1_3.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/javaee_web_services_client_1_4.xsd<?xml version="1.0" encoding="UTF-8"?>
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 version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/jsp_2_1.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/jsp_2_2.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/jsp_2_3.xsd<?xml version="1.0" encoding="UTF-8"?>

/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/jsp_3_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_2_2.dtd<!--
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_2_3.dtd<!--
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_2_4.xsd<?xml
 version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_2_5.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_3_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_3_1.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_4_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-app_5_0.xsd<?xml
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/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-common_3_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-common_3_1.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-common_4_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-common_5_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-fragment_3_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-fragment_3_1.xsd<?xml
 version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-fragment_4_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-fragment_5_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-jsptaglibrary_1_1.dtd<!--
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-jsptaglibrary_1_2.dtd<!--
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-jsptaglibrary_2_0.xsd<?xml version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-jsptaglibrary_2_1.xsd<?xml
 version="1.0" encoding="UTF-8"?>
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/web-jsptaglibrary_3_0.xsd<?xml version="1.0" encoding="UTF-8"?>

/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/pom.xml<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
* /jakarta-servlet-api-5-0-0-sources-2-jar/META-INF/maven/jakarta.servlet/jakarta.servlet-api/pom.xml
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/descriptor/JspConfigDescriptor.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/http/Cookie.java/*
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/package.html<!--
/opt/cola/permits/2862581790_1768357009.1106849/0/jakarta-servlet-api-5-0-0-sources-2-jar/jakarta/servlet/resources/j2ee_1_4.xsd<?xml version="1.0" encoding="UTF-8"?>

Found in path(s):
* </html>

1.663 x-pack-security 8.19.5

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clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
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tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
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product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
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clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding
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charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source

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b) Convey the object code in, or embodied in, a physical product
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially,
and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source
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VERSION 1, OCTOBER 16, 2018

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You may convey a work based on the Program, or the modifications to
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terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent
notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section 4 to
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c) You must license the entire work, as a whole, under this
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d) If the work has interactive user interfaces, each must display
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A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
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"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
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in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer
product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source
conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and

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VERSION 1, OCTOBER 16, 2018

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specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

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must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works,
which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with
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Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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