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1.922 futures 3.4.0
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1.923 netty-transport-native-epoll 4.1.109.Final
1.923.1 Available under license
1.924 libcurl 8.5.0-r0
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1.925 tomcat 10.1.24
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1.926 netty-transport-native-unix-common 4.1.110.Final
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1.937 netty-codec-socks 4.1.110.Final
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1.938 backports.tarfile 1.2.0
1.938.1 Available under license
1.939 python-requests 2.32.3
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1.940 jsr305 3.0.2
1.940.1 Available under license
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1.942 spring-web-mvc 6.1.8
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1.959 zipp 3.19.2
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1.960 packaging 24.1
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1.961 urllib3 2.2.2
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1.962 wheel 0.43.0
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1.963 kotlin 1.9.24-release-822
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1.964 jaxb-runtime 4.0.5
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1.965 postgre-sql 42.5.5
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1.966 jdk-corretto 17.0.11.9.1
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1.967 jsonpickle 3.2.2
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1.968 googleapis-common-protos 1.63.2
1.968.1 Available under license
1.969 importlib-metadata 8.0.0

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1.971 google-api-core 2.19.1

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1.972 proto-plus 1.24.0

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1.973 bridgeutils 1.36.1-r19

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1.975 python-certifi 2024.7.4

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1.976 openssl 3.1.6-r2

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1.977 zstd 1.5.2

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1.978 charset-normalizer 3.3.2

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1.980 inflect 7.3.1

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1.981 jaraco.text 3.12.1

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1.982 typeguard 4.3.0

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1.983 jackson-databind 2.17.2

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1.984 jackson-annotations 2.17.2

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1.987 libintl 0.22.3-r0

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1.988 utmps-libs 0.1.2.2-r0

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1.990 libssl3 3.1.6-r2
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1.991 python-setuptools 71.1.0
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1.992 importlib-resources 6.1.1-r0
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1.994 simple launcher 1.1.0.14
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1.995 platformdirs 4.2.2
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1.996 protocol buffers - google's data interchange format 3.11.4
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1.997 allure-model 2.28.0
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1.1007 typing-extensions 4.12.2
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1.1008 importlib-metadata 4.11.1
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1.1009 google-api-python-client 2.140.0
1.1009.1 Available under license
1.1010 cachetools 5.4.0
1.1010.1 Available under license
1.1011 activation 2.1.3
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1.1012 activation-api 2.1.3
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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
==========

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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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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   program, you

must acknowledge somewhere in your documentation that
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must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed,
then the accompanying
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L. Peter Deutsch,
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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 geronimo-jta 1.1.1

1.2.1 Available under license :

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Version 2.0, January 2004

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* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStream.java
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1.6 geronimoj2eeconnector 1.0

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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:

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1.13 apache-aries-blueprint-api 1.0.1

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1.16 annotations 13.0

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* /annotations-13-0-sources-jar/org/intellij/lang/annotations/PrintFormat.java

*
/annotations-13-0-sources-jar/org/intellij/lang/annotations/RegExp.java
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1.17 googleapis-common-protos 0.0.3

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* /googleapis-common-protos-0-0-3-sources-jar/google/rpc/code.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/api/label.proto
*
/googleapis-common-protos-0-0-3-sources-jar/google/api/backend.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/api/service.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/type/date.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/type/timeofday.proto
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* /googleapis-common-protos-0-0-3-sources-jar/google/type/dayofweek.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/api/system_parameter.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/api/logging.proto
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* /googleapis-common-protos-0-0-3-sources-jar/google/api/usage.proto
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* /googleapis-common-protos-0-0-3-sources-jar/google/rpc/error_details.proto
* /googleapis-common-protos-0-0-3-sources-jar/google/api/monitoring.proto

* /googleapis-common-protos-0-0-3-sources-jar/google/api/control.proto
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1.18 plexus-utils 3.1.0

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1.20 httpcomponents-core 4.4.10

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1.25 j2objc-annotations 1.3

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1.26 commons-beanutils 1.9.4

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1.28 jtds 1.3.1

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*
/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDeclarationException.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/Validation.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/TraversableResolver.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Future.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Size.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertTrue.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/spi/BootstrapState.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/Payload.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/spi/ValidationProvider.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/ValidationException.java
*
/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Null.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/Valid.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/groups/Default.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/OverridesAttribute.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Min.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Digits.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Past.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Max.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Pattern.java
*
/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/ValidationProviderResolver.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/Scope.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/PropertyDescriptor.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/NotNull.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/ParameterNameProvider.java
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1.38 jsonpath-rw 1.4.0

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Found in path(s):
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Sample.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/ConnectionLostHandler.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/package-info.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/SampleGroup.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Utils.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionFactory.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnection.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/SubscriptionImpl.java
*
/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Message.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Subscription.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/StanBench.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/MessageHandler.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/Publisher.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/SubscriptionOptions.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionImpl.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/NatsStreaming.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/AckHandler.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/Subscriber.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/package-info.java
* /java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Options.java
*
/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Benchmark.java

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1.61 apache-servicemix-bundles-cglib 3.3.0_1

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1.62 jctools-core 3.1.0

1.62.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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 <name>Java Concurrency Tools Core Library</name>
 <description>Java Concurrency Tools Core Library</description>
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 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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License, Version 2.0</name>
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  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
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  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
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  <url>https://github.com/kay</url>
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  <url>https://github.com/franz1981</url>
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</developers>

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 <java.test.version>1.8</java.test.version>

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 <hamcrest.version>1.3</hamcrest.version>
 <junit.version>4.12</junit.version>
 <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

Found
 in path(s):
* /jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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*/

Found in path(s):
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscLinkedQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscGrowableArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpscLinkedArrayQueue.java

1.63 commons-io 2.8.0

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1.64 apache-aries-jmx-api 1.1.5

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* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html

1.69 commons-codec 1.11

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1.70 jakarta-annotation-api 1.3.5

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1.71 commons-validator 1.5.1

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jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

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1.74 commons-lang3 3.7

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1.80 cdi-api 2.0.SP1

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1.81 asm 5.1

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*/
/**
    * Creates a new JSRInliner. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the
    * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
    * version.
    *
    * @param mv
    *
   the <code>MethodVisitor</code> to send the resulting inlined
    *          method code to (use <code>null</code> for none).
    * @param access
    *          the method's access flags (see {@link Opcodes}). This
    *          parameter also indicates if the method is synthetic and/or
    *          deprecated.
    * @param name
```

```
   *           the method's name.
   * @param desc
   *           the method's descriptor (see {@link Type}).
   * @param signature
   *           the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *           the internal names of the method's exception classes (see
   *           {@link Type#getInternalName() getInternalName}). May be
   *           <tt>null</tt>.
   * @throws IllegalStateException
   *            If a subclass calls this constructor.
   */
```

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*/
/**
```

```
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
```

```
   *           the fist instructions corresponding to the continuous ranges
   *           that make the scope of this local variable (inclusive).
   * @param end
   *           the last instructions corresponding to the continuous ranges
   *           that make the scope of this local variable (exclusive). This
   *           array must have the same size as the 'start' array.
   * @param index
   *           the local variable's index in each range. This array must have
   *           the same size as the 'start' array.
   * @param desc
   *           the class descriptor of
 the annotation class.
   */
```

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*/
```

```
/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/package.html
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/package.html
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*/
/**
   * Creates 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 mv
   *            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 desc
   *          the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
```

```
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
*
 /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-frames.properties
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* /asm-5-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/ClassReader.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Item.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ConstantPool.java
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/asm-5-1-sources-2-jar/org/objectweb/asm/util/ASMifier.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Label.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java

* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
*
 /asm-5-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/Printer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Type.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/MethodRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Context.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
*
 /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/FieldRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
*
 /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Handler.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/FieldWriter.java
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/asm-5-1-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/ByteVector.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Edge.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/Method.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Handle.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java

1.82 hk2-locator 2.6.1

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https://github.com/madler/zlib
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Martin Richards
23 February 2007
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  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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   <Compile Include="Program.cs" />
   <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
   <Compile Include="../../ServerContracts/Server.Contracts.cs" />
   <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
   <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
   <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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For details on the original authors see http://math.nist.gov/scimark2

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1.96 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex
    import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

    import lex
    import yacc

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

   http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

   https://github.com/dabeaz/ply

An old and
 relatively inactive discussion group for PLY is found at:

   http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================

PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation
 of a calculator
with variables.

```
  # -----------------------------------------------------------------------------
  # calc.py
  #
  # A simple calculator with variables.
  # -----------------------------------------------------------------------------

  tokens = (
     'NAME','NUMBER',
     'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
     'LPAREN','RPAREN',
     )

  # Tokens

  t_PLUS    = r'\+'
  t_MINUS   = r'-'
  t_TIMES   = r'\*'
  t_DIVIDE  = r'/'
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
  t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

  def t_NUMBER(t):
     r'\d+'
     t.value = int(t.value)
     return t

  # Ignored characters
  t_ignore = " \t"

  def t_newline(t):
     r'\n+'
     t.lexer.lineno += t.value.count("\n")
```

```
  def t_error(t):
      print("Illegal character '%s'" % t.value[0])
      t.lexer.skip(1)

  # Build the lexer
  import ply.lex as lex
  lex.lex()

  # Precedence
rules for the arithmetic operators
  precedence = (
      ('left','PLUS','MINUS'),
      ('left','TIMES','DIVIDE'),
      ('right','UMINUS'),
      )

  # dictionary of names (for storing variables)
  names = { }

  def p_statement_assign(p):
      'statement : NAME EQUALS expression'
      names[p[1]] = p[3]

  def p_statement_expr(p):
      'statement : expression'
      print(p[1])

  def p_expression_binop(p):
      '''expression : expression PLUS expression
                    | expression MINUS expression
                    | expression TIMES expression
                    | expression DIVIDE expression'''
      if p[2] == '+'  : p[0] = p[1] + p[3]
      elif p[2] == '-': p[0] = p[1] - p[3]
      elif p[2] == '*': p[0] = p[1] * p[3]
      elif p[2] == '/': p[0] = p[1] / p[3]

  def p_expression_uminus(p):
      'expression : MINUS expression %prec UMINUS'
      p[0] = -p[2]

  def p_expression_group(p):
      'expression : LPAREN
expression RPAREN'
      p[0] = p[2]

  def p_expression_number(p):
      'expression : NUMBER'
```

```
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)
```

Bug Reports and Patches
==========
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page
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email to dave@dabeaz.com.

-- Dave

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1.97 jta 1.2

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1.103 jcl-over-slf4j 1.7.32

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1.104 slf4j 1.7.32

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1.112 hdrhistogram 2.1.12

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* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoublePercentileIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ZigZagEncoding.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AllValuesIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Base64Helper.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/IntCountsHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleLinearIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentDoubleHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArraySingleWriterRecorder.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Histogram.java
*
/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/RecordedValuesIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LinearIterator.java

* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedDoubleHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramIterationValue.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Recorder.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogReader.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
*
 /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecorder.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PercentileIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ShortCountsHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/EncodableHistogram.java
*
 /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogScanner.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentHistogram.java
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package org.HdrHistogram;
```

```
final class Version {
  public static final String version="$VERSION$";
  public static final String build_time="$BUILD_TIME$";
}
```

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* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template
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1.113 alpn-api 1.1.3.v20160715

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* /alpn-api-1-1-3-v20160715-sources-jar/org/eclipse/jetty/alpn/ALPN.java

1.114 hikaricp 4.0.3

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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariDataSource.java
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/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java

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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/PropertyElf.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/HikariPool.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
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 /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfig.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
*
 /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/FastList.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java

1.115 hikaricp 3.3.1

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* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
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* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
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* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java
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 /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
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* /hikaricp-3-3-1-sources-jar/com/zaxxer/hikari/HikariConfig.java
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1.116 sizeof-agent 1.0.1

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1.117 error_prone_annotations 2.5.1

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jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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* /error-prone-annotations-2-5-1-sources-jar/com/google/errorprone/annotations/FormatString.java
* /error-prone-annotations-2-5-1-sources-jar/com/google/errorprone/annotations/DoNotMock.java
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/error-prone-annotations-2-5-1-sources-jar/com/google/errorprone/annotations/FormatMethod.java
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* /error-prone-annotations-2-5-1-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
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1.118 encoder 1.2.3

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    * Determines if the current OS matches the given OS
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    *
    * @param version the OS version to check for
    * @return true if the OS matches
```

```
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* /failsafe-2-4-4-sources-1-jar/net/jodah/failsafe/CircuitBreakerOpenException.java
* /failsafe-2-4-4-sources-1-jar/net/jodah/failsafe/Execution.java
* /failsafe-2-4-4-sources-1-jar/net/jodah/failsafe/function/AsyncSupplier.java
* /failsafe-2-4-4-sources-1-jar/net/jodah/failsafe/internal/CircuitBreakerInternals.java
* /failsafe-2-4-4-sources-1-jar/net/jodah/failsafe/FailsafeFuture.java
* /failsafe-2-4-4-sources-1-jar/net/jodah/failsafe/CircuitBreaker.java

1.139 hikaricp 5.0.1

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* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
*
 /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/PropertyElf.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/HikariDataSource.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
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* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
*
/hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/FastList.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java
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* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/PoolEntry.java
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* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
*
/hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java

1.140 grpc-auth 1.6.0

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  * Converts a Google Auth Library {@link Credentials} to {@link CallCredentials}.
  *
  * <p>Although this is a stable API, note that the returned instance's API is not stable. You are
  * free to use the class name {@code CallCredentials} and pass the instance to other code, but the
  * instance can't
 be called directly from code expecting stable behavior. See {@link
  * CallCredentials}.
  */
```

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1.141 jakarta-transaction-api 2.0.1

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Found in path(s):
* /jline-remote-ssh-3-21-0-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
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Found in path(s):
* /jline-remote-ssh-3-21-0-sources-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-remote-ssh-3-21-0-sources-jar/org/jline/builtins/ssh/Ssh.java
* /jline-remote-ssh-3-21-0-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java

1.145 jline-terminal 3.21.0

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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
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma

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
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
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
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
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
down_half_line, hd, hd
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
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed

exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_ctab, kctab, kt
key_dc, kdch1, kD
key_dl, kdl1, kL

key_down, kcud1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
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key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
key_f44, kf44, FY

key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48, Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5

key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
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
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
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
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1

reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
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
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
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
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
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

Found in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/capabilities.txt

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Found in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/WriterOutputStream.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/PumpReader.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlockingPumpInputStream.java
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Found in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/AttributedStyle.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/TerminalBuilder.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/AttributedCharSequence.java
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Found in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlocking.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/Terminal.java

* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/StyleResolver.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/Size.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/ExternalTerminal.java
*
 /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/Colors.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlockingReader.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/Curses.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/AttributedStringBuilder.java
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Found in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/InfoCmp.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/Status.java
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Found in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/spi/Pty.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/InputStreamReader.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/ExecHelper.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/DiffHelper.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/OSUtils.java

* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/Attributes.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/MouseEvent.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/Cursor.java
*
 /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/MouseSupport.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/WCWidth.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/ClosedException.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/AttributedString.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/ExecPty.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/package-info.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/package-info.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/ShutdownHooks.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/Levenshtein.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/impl/NativeSignalHandler.java
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* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/spi/JnaSupport.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/Signals.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/ColorPalette.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/Display.java
* /jline-terminal-3-21-0-sources-1-jar/org/jline/terminal/spi/JansiSupport.java
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indianred1
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mediumorchid1a
darkorange

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palevioletred1
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mistyrose1
thistle1
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in path(s):
* /jline-terminal-3-21-0-sources-1-jar/org/jline/utils/colors.txt

1.146 jline-remote-telnet 3.21.0

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* /jline-remote-telnet-3-21-0-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
*
/jline-remote-telnet-3-21-0-sources-jar/org/jline/builtins/telnet/PortListener.java
* /jline-remote-telnet-3-21-0-sources-jar/org/jline/builtins/telnet/ConnectionData.java
* /jline-remote-telnet-3-21-0-sources-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /jline-remote-telnet-3-21-0-sources-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-remote-telnet-3-21-0-sources-jar/org/jline/builtins/telnet/Connection.java
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1.147 jline-terminal-jansi 3.21.0

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* /jline-terminal-jansi-3-21-0-sources-1-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
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* /jline-terminal-jansi-3-21-0-sources-1-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-terminal-jansi-3-21-0-sources-1-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-terminal-jansi-3-21-0-sources-1-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
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1.148 jline-style 3.21.0

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* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyleFactory.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/Styler.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyleExpression.java

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* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyleBundle.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyleColor.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyledWriter.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/NopStyleSource.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/MemoryStyleSource.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-style-3-21-0-sources-1-jar/org/jline/style/StyleResolver.java

1.149 jline-builtins 3.21.0

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* /jline-builtins-3-21-0-sources-1-jar/org/jline/builtins/Nano.java
* /jline-builtins-3-21-0-sources-1-jar/org/jline/builtins/Completers.java
* /jline-builtins-3-21-0-sources-1-jar/org/jline/builtins/TTop.java
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1.150 jline-reader 3.21.0

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* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/BufferImpl.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Buffer.java
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* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/DefaultParser.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/LineReaderBuilder.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/CompletionMatcher.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Parser.java
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* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Editor.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Highlighter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Candidate.java
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Found in path(s):
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Completer.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/KillRing.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/CompletingParsedLine.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/ParsedLine.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/History.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/keymap/BindingReader.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/MaskingCallback.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/FileNameCompleter.java
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* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/EOFError.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/SyntaxError.java
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Found in path(s):
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/LineReader.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/PrintAboveWriter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/history/DefaultHistory.java
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Found in path(s):
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/package-info.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/history/package-info.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/package-info.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Reference.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/UndoTree.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Macro.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/keymap/KeyMap.java
*
 /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Widget.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Expander.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/Binding.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-reader-3-21-0-sources-1-jar/org/jline/reader/UserInterruptException.java
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* /jline-reader-3-21-0-sources-1-jar/META-INF/maven/org.jline/jline-reader/pom.xml

1.151 jline-terminal-jna 3.21.0

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* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
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* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
*
 /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-terminal-jna-3-21-0-sources-1-jar/org/jline/terminal/impl/jna/JnaNativePty.java

1.152 jakarta-validation-api 3.0.2

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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertTrue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Positive.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Digits.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Min.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/package-info.java
*
 /jakarta-validation-api-3-0-2-sources-jar/module-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Configuration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/Default.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotBlank.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMin.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Payload.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/BootstrapState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ParameterNameProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/Scope.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationProviderResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotEmpty.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ExtractedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/UnexpectedTypeException.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/BootstrapConfiguration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ReturnValueDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/GenericBootstrap.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ReportAsSingleViolation.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Constraint.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/TraversableResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/NoProviderFoundException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Null.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Path.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validation.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDefinitionException.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Max.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PastOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Negative.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstructorDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Email.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Pattern.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ElementKind.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotNull.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ElementDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Past.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/package-info.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ClockProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Size.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PositiveOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/ProviderSpecificBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Future.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMax.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupSequence.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ConfigurationState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/ConvertGroup.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ValidationProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/MessageInterpolator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolation.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Valid.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/OverridesAttribute.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableType.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodType.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java

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* /jcommander-1-82-sources-jar/com/beust/jcommander/internal/Maps.java
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1.157 rsa 4.9

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1.158 apache-servicemix-bundles-c3p0 0.9.5.5_1

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1.159 apache-felix-metatype 1.2.4

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1.163 packaging 21.3

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Found in path(s):
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/RegularExpressionValueMatcher.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/comparator/ArraySizeComparator.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/comparator/DefaultComparator.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/ArrayValueMatcher.java
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* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/ValueMatcher.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/comparator/JSONCompareUtil.java
* /jsonassert-1-5-1-sources-jar/org/json/JSONString.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/FieldComparisonFailure.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/comparator/JSONComparator.java
*
 /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/comparator/AbstractComparator.java
* /jsonassert-1-5-1-sources-jar/org/skyscreamer/jsonassert/ValueMatcherException.java

1.166 jakarta-annotation-api 2.1.1

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* https://github.com/eclipse-ee4j/common-annotations-api

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1.169 simpleclient_tracer_otel 0.16.0

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Manifest-Version: 1.0
Bnd-LastModified: 1655327871630
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: The Prometheus Java Suite: Client Metrics, Expositio
n, and Examples

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry
Bundle-SymbolicName: io.prometheus.simpleclient_tracer_otel
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exemplars.tracer.otel;uses:="io.pro
metheus.client.exemplars.tracer.common";version="0.16.0"
Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prome
theus.client.exemplars.tracer.common;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

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1.170 simpleclient-common 0.16.0

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1.171 simpleclient_tracer_otel_agent 0.16.0

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1.172 simpleclient-hotspot 0.16.0

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Manifest-Version: 1.0
Bnd-LastModified: 1655327979490
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Collectors of data from Java Hotspot.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Hotspot
Bundle-SymbolicName: io.prometheus.simpleclient_hotspot
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client
";version="0.16.0"
Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1
)",javax.management,javax.management.openmbean
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
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1.173 protobuf-java-util 3.21.5

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1660077522570
Build-Jdk: 1.8.0_181-google-v7
Built-By: deannagarcia
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: 3.21.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.21.5";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[31.1,32)",com.google.co
mmon.io;version="[31.1,32)",com.google.common.math;version="[31.1,32)",
com.google.common.primitives;version="[31.1,32)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.21,4)",javax.annotation;version="[3.0,4)"

Require-Capability:
osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):
* /protobuf-java-util-3-21-5-jar/META-INF/MANIFEST.MF

1.174 maven-artifact 3.8.6

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*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
**********/

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
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*         bug 383368 - [compiler][null] syntactic null analysis for field references
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*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug
 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*         Bug 426792 - [1.8][inference][impl] generify new type inference engine
*         Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 431581 - Eclipse compiles what it should not
*         Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*         Bug 446442 - [1.8] merge null annotations from
 super methods
*         Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*         Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*      Jesper S Moller - Contributions for
*         bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*         bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*         bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
 for
*         bug 544921 - [performance] Poor performance with large source files
********************************************************************************/
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*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*           bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*           bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*        bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*        bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
```

```
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
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*       Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       Bug 388630 - @NonNull diagnostics at line 0
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
 *    Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                       Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*                       Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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*    wharley@bea.com - initial API and implementation
*    philippe.marschall@netcetera.ch - Fix for 338370
*    IBM Corporation - Fix for validating relative name
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
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*          bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*          bug 292478 - Report potentially null across variable assignment
*       bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
*       bug 354554 - [null] conditional with redundant condition
 yields weak error message
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
```

```
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *      Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*********************************************************************************/
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* Contributors:
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*     Jesper Steen Moller - Contributions for:
*         Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java
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*   bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
**********/

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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
**********/

Found
 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImplicitNullAnnotationVerifier.java
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*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                    Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                    Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                    Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                    Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                    Bug 434556 - Broken class file generated for incorrect annotation usage
*                    Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFile.java
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*         Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java
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*     Stephan Herrmann - Contributions for
*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

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*     Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          bug 185682 - Increment/decrement operators mark local variables as read
*          bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
```

*   bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*   bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*   Till Brychcy - Contributions for
*   bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*         Stephan Herrmann - Contribution for
*         Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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*   Stephan Herrmann - Contributions for
*   Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.java

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java

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*            bug 349326 - [1.7] new warning for missing try-with-resources
*            bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*        bug 358903 - Filter practically unimportant resource leak warnings
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*        Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*        Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 435962 - [RC2] StackOverFlowError when building
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ITypeAnnotationWalker.java
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*   IBM Corporation - initial API and implementation
*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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*        bug 384380 - False positive on a "Potential null pointer access" after a continue
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java
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* Contributors:
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*     Perry James - nullStatus method improvement (165346)
*     Stephan Herrmann - Contribution for
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorExpression.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*        Bug 440282 - [resource] Resource leak detection false negative with empty finally block
**********************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Block.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java

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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*         bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*         bug 390883 - [1.8][compiler] Unable to override default method
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*         bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*         bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*         bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*         bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*         bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*         Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*         Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *         Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 446442 - [1.8] merge null annotations from super methods
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 364890 - BinaryTypeBinding should use char constants from Util
*         bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 388800 - [1.8][compiler] detect default methods in class files
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*         Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*         Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*         Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*         Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*     Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Sebastian Zarnekow - Contributions for
*         bug 544921 - [performance] Poor performance with large source files
*     Alexander Lehmann - Contributions for
*         bug 566258 - Intermittent NPE in APT RoundDispatcher
**********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java
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*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Frits Jalvingh  - fix for bug 533830.
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*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*         bug 370639 - [compiler][resource] restore the default for resource leak warnings
*         bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*         Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*         Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*         Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*         Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*         Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*         Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*         Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*******************************************************************************/
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*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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*     Stephan Herrmann - Contribution for
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *        Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 458396 - NPE in CodeStream.invoke()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*        Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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*
* Contributors:
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*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 292478 - Report potentially null across variable assignment
*           bug 335093 - [compiler][null] minimal hook for future null annotation support
*           bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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*  Stephan Herrmann - Contribution for
```

```
*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                      Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*           bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java
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*   Stephan Herrmann - Contribution for
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
**********/

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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*********************************************************************************/
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*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                         Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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```

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*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*        Bug 434600 - Incorrect null analysis error reporting on type parameters
*        Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
```

```
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*   bug 328281 - visibility leaks not detected when analyzing unused field in private class
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

```
*    Stephan Herrmann - Contribution for
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
**********************************************************************************/
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
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*        Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*        bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*        bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*        Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*        Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*        Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*    Jesper S Moller - Contributions for
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*        Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*    Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*    Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                        bug 386692 - Missing "unused" warning on "autowired" fields
*    Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                        bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 458396 - NPE in CodeStream.invoke()
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
```

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions
 for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
**********/

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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
**********/

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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/

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*    IBM Corporation - fix for 342598
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*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
**********/

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*   Jesper S Moller - Contributions for

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 438945 - [1.8] NullPointerException InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 331649 - [compiler][null] consider null annotations for fields
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*         Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*         Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*         Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                         Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                         Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                         Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*       Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                         Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                         Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                         Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
*******************************************************************************/
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*   Stephan Herrmann - Contribution for
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
***/

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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Bug 529556 - [18.3] Add content assist support for 'var' as a type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java
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* Contributors:
*    wharley@bea.com - derived base class from BatchMessagerImpl
*
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```
*       Bug 440474 - [null] textual encoding of external null annotations
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*       bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*       Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
```

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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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*          bug 325755 - [compiler] wrong initialization state after conditional expression
*          bug 320170 - [compiler] [null] Whitebox issues in null analysis
*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*          bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*   Bug 456924 - StackOverflowError during compilation
*   Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
*         Bug 349326 - [1.7] new warning for missing try-with-resources
*         Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
```

"sometimes"
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*   Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*   het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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*   bug 328281 - visibility leaks not detected when analyzing unused field in private class
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*   bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 366063 - Compiler should not add synthetic @NonNull annotations
*   bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*   bug 386356 - Type mismatch error with annotations and generics
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type

```
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Till Brychcy - Contributions for
*          bug 415269 - NonNullByDefault is not always inherited to nested classes
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
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*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
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*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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*         bug 407191 - [1.8] Binary access support for type annotations
*     Stephan Herrmann - Contribution for
*        Bug 440474 - [null] textual encoding of external null annotations
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*     Stephan Herrmann  - Contributions for
*           bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*           bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
 *        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*        bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        bug 376053 - [compiler][resource] Strange potential resource leak problems
*        bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*        bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
*        bug 376590 - Private fields with @Inject are ignored by unused field validation
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        bug 402028 - [1.8][compiler] null analysis for reference expressions
*        bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug
 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
```

```
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
 from List<Object> to Collection<Object[]>
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
*       Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
*       Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding
method _ due to incompatible nullness constraints"
*       Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
 in package-info.java
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
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*   IBM Corporation - initial API and implementation
*   Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null
 analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload

context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
* Bug 470958 - [1.8] Unable to convert lambda
* Bug 410218 - Optional warning
for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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*     Stephan Herrmann - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug
 383368 - [compiler][null] syntactic null analysis for field references
*         bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*         bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 430150 - [1.8][null] stricter checking against type variables
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*         Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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* Contributors:
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*   IBM Corporation - Fix for bug 328575
*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*        Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*    tyeung@bea.com  - initial API and implementation
*    IBM Corporation - fix for bug 342757
*    Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
*          bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*******************************************************************************/
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Stephan Herrmann - Contribution for
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*   Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
*   Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*   Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
*   Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*   Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
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*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*     IBM Corporation - Bug fixes
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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*
* Contributors:
*   wharley@bea.com - initial API and implementation
*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 387612 - Unreachable catch block...exception is never thrown from the try
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*   bug 401271 - StackOverflowError
 when searching for a methods references
*   bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*   Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*   Bug 413958 - Function override returning inherited Generic Type
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler]
 Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*   Bug 426590 - [1.8][compiler] Compiler error with tenary operator
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

```
*       Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments
(java.lang.Class, java.lang.String)
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug
 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
*       Bug 427218 - [1.8][compiler] Verify error varargs + inference
*       Bug 426836 - [1.8] special handling for return type in references to method getClass()?
*       Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
*       Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*       Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
 class
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*       Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite
@NonNullByDefault
*       Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc)
 aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 559618 - No compiler warning for import from same package
*                         Bug 560630 - No warning on unused import on class from same package
*******************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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*     Stephan Herrmann - Contribution for
*        bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
```

```
*                   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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*     daolaf@gmail.com - Contribution for bug 3292227
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*     Tom Tromey - Contribution for bug 125961
*     Tom Tromey - Contribution for bug 159641
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 359721 - [options] add command line option
 for new warning token "resource"
*       bug 365208 - [compiler][batch] command line options for annotation based null analysis
*       bug 374605 - Unreasonable warning for enum-based switch statements
```

```
*       bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*       Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*     Jesper S Moller   - Contributions for
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
*    Mat Booth - Contribution for bug 405176
*    Frits Jalvingh -
 fix for bug 533830.
*******************************************************************************/
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*     Stephan Herrmann - Contribution for
*       Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*******************************************************************************/
```

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*      Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*        bug 317046 - Exception during debugging when hover mouse over a field
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*        Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*        Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*        Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
 *        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 435962 - [RC2] StackOverFlowError when building
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*        Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*        bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*     Stephan Herrmann - Contribution for
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*        Bug 378674 - "The method can be declared as static" is wrong
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
*

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* Contributors:
*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
*    het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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*   Stephan Herrmann - Contribution for
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ReadManager.java
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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking

```
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated
 null analysis to gel well with deep encoded type bindings.
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*       bug 401035 - [1.8] A few tests have started failing recently
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 393192 - Incomplete type hierarchy with > 10 annotations
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
           Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*          NonStaticAccessToStaticField
*          NonStaticAccessToStaticMethod
*          Task
*          ExpressionShouldBeAVariable
*          AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*          TooManySyntheticArgumentSlots
*          TooManyArrayDimensions
*          TooManyBytesForStringConstant
*          TooManyMethods
*          TooManyFields
```

```
 *          NonBlankFinalLocalAssignment
*          ObjectCannotHaveSuperTypes
*          MissingSemiColon
*          InvalidParenthesizedExpression
*          EnclosingInstanceInConstructorCall
*          BytecodeExceeds64KLimitForConstructor
*          IncompatibleReturnTypeForNonInheritedInterfaceMethod
*          UnusedPrivateMethod
*          UnusedPrivateConstructor
*          UnusedPrivateType
*          UnusedPrivateField
*          IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*          InvalidExplicitConstructorCall
*     IBM Corporation - added the following constants
*          PossibleAccidentalBooleanAssignment
*          SuperfluousSemicolon
*          IndirectAccessToStaticField
*          IndirectAccessToStaticMethod
*          IndirectAccessToStaticType
*          BooleanMethodThrowingException
*          UnnecessaryCast
*          UnnecessaryArgumentCast
*          UnnecessaryInstanceof
*
   FinallyMustCompleteNormally
*          UnusedMethodDeclaredThrownException
*          UnusedConstructorDeclaredThrownException
*          InvalidCatchBlockSequence
*          UnqualifiedFieldAccess
*     IBM Corporation - added the following constants
*          Javadoc
*          JavadocUnexpectedTag
*          JavadocMissingParamTag
*          JavadocMissingParamName
*          JavadocDuplicateParamName
*          JavadocInvalidParamName
*          JavadocMissingReturnTag
*          JavadocDuplicateReturnTag
*          JavadocMissingThrowsTag
*          JavadocMissingThrowsClassName
*          JavadocInvalidThrowsClass
*          JavadocDuplicateThrowsClassName
*          JavadocInvalidThrowsClassName
*          JavadocMissingSeeReference
*          JavadocInvalidSeeReference
*          JavadocInvalidSeeHref
*          JavadocInvalidSeeArgs
*          JavadocMissing
```

```
*         JavadocInvalidTag
*         JavadocMessagePrefix
 *         EmptyControlFlowStatement
*    IBM Corporation - added the following constants
*         IllegalUsageOfQualifiedTypeReference
*         InvalidDigit
*    IBM Corporation - added the following constants
*         ParameterAssignment
*         FallthroughCase
*    IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
*                         JavadocNonStaticTypeFromStaticInvocation
*                         RawTypeReference
*                         NoAdditionalBoundAfterTypeVariable
*                         UnsafeGenericArrayForVarargs
*                         IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                         InvalidEncoding
*                         CannotReadSource
*                         EnumStaticFieldInInInitializerContext
*                         ExternalProblemNotFixable
*                         ExternalProblemFixable
*    IBM Corporation - added the following constants
*                         AnnotationValueMustBeAnEnumConstant
*                         OverridingMethodWithoutSuperInvocation
*                         MethodMustOverrideOrImplement
*                         TypeHidingTypeParameterFromType
*                         TypeHidingTypeParameterFromMethod
*                         TypeHidingType
*    IBM Corporation - added the following constants
*         NullLocalVariableReference
*         PotentialNullLocalVariableReference
*         RedundantNullCheckOnNullLocalVariable
*         NullLocalVariableComparisonYieldsFalse
 *         RedundantLocalVariableNullAssignment
*         NullLocalVariableInstanceofYieldsFalse
*         RedundantNullCheckOnNonNullLocalVariable
*         NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                         InvalidUsageOfTypeParametersForAnnotationDeclaration
*                         InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*         RedundantSuperinterface
```

* Benjamin Muskalla - added the following constants
* MissingSynchronizedModifierInInheritedMethod
* Stephan Herrmann - added the following constants
* UnusedObjectAllocation
* PotentiallyUnclosedCloseable
* PotentiallyUnclosedCloseableAtExit
* UnclosedCloseable
* UnclosedCloseableAtExit
* ExplicitlyClosedAutoCloseable
* RequiredNonNullButProvidedNull
* RequiredNonNullButProvidedPotentialNull
* RequiredNonNullButProvidedUnknown
* NullAnnotationNameMustBeQualified
* IllegalReturnNullityRedefinition
* IllegalRedefinitionToNonNullParameter
* IllegalDefinitionToNonNullParameter
* ParameterLackingNonNullAnnotation
* ParameterLackingNullableAnnotation
* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference

```
 *      UninitializedNonNullField
 *      UninitializedNonNullFieldHintMissingDefault
 *      NonNullMessageSendComparisonYieldsFalse
 *      RedundantNullCheckOnNonNullSpecdField
 *      NonNullSpecdFieldComparisonYieldsFalse
 *      NonNullExpressionComparisonYieldsFalse
 *      RedundantNullCheckOnNonNullExpression
 *      ReferenceExpressionParameterNullityMismatch
 *      ReferenceExpressionParameterNullityUnchecked
 *      ReferenceExpressionReturnNullRedef
 *      ReferenceExpressionReturnNullRedefUnchecked
 *      DuplicateInheritedDefaultMethods
 *      SuperAccessCannotBypassDirectSuper
 *      SuperCallCannotBypassOverride
 *      ConflictingNullAnnotations
 *      ConflictingInheritedNullAnnotations
 *      UnsafeElementTypeConversion
 *      PotentialNullUnboxing
 *      NullUnboxing
 *      NullExpressionReference
 *      PotentialNullExpressionReference
 *      RedundantNullCheckAgainstNonNullType
 *      NullAnnotationUnsupportedLocation
 *      NullAnnotationUnsupportedLocationAtType
 *      NullityMismatchTypeArgument
 *      ContradictoryNullAnnotationsOnBound
 *      UnsafeNullnessCast
 *      ContradictoryNullAnnotationsInferred
 *      NonNullDefaultDetailIsNotEvaluated
 *      NullNotCompatibleToFreeTypeVariable
 *      NullityMismatchAgainstFreeTypeVariable
 *      ImplicitObjectBoundNoNullDefault
 *      IllegalParameterNullityRedefinition
 *      ContradictoryNullAnnotationsInferredFunctionType
 *      IllegalReturnNullityRedefinitionFreeTypeVariable
 *      UnlikelyCollectionMethodArgumentType
 *      UnlikelyEqualsArgumentType
 *    Jesper S Moller  - added the following constants
 *      TargetTypeNotAFunctionalInterface
 *      OuterLocalMustBeEffectivelyFinal
 *      IllegalModifiersForPackage
 *      DuplicateAnnotationNotMarkedRepeatable
 *      DisallowedTargetForContainerAnnotation
 *      RepeatedAnnotationWithContainerAnnotation
 *      ContainingAnnotationMustHaveValue
 *      ContainingAnnotationHasNonDefaultMembers
 *      ContainingAnnotationHasWrongValueType
 *      ContainingAnnotationHasShorterRetention
```

```
 *        RepeatableAnnotationHasTargets
*        RepeatableAnnotationTargetMismatch
*        RepeatableAnnotationIsDocumented
*        RepeatableAnnotationIsInherited
*        RepeatableAnnotationWithRepeatingContainerAnnotation
*        VarLocalMultipleDeclarators
*        VarLocalCannotBeArray
*        VarLocalReferencesItself
*        VarLocalWithoutInitizalier
*        VarLocalInitializedToNull
*        VarLocalCannotBeArrayInitalizers
*        VarLocalCannotBeLambda
*        VarLocalCannotBeMethodReference
*        VarIsReserved
*        VarIsReservedInFuture
*        VarIsNotAllowedHere
********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java
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*     Stephan Herrmann - Contribution for
*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*        bug 378674 - "The method can be declared as static" is wrong
********************************************************************************/

Found
 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 -
```

[1.8][null] Bogus warning for type argument annotated with @NonNull
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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*   Stephan Herrmann - Contributions for
*   Bug 186342 - [compiler][null] Using annotations for null checking
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java
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*   Walter Harley   - Patch for ensuring the parent folders are created
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 370930 - NonNull annotation not considered for enhanced for loops
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*        Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*        bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                           bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
processing
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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*   Erling Ellingsen - patch for bug 125570
*   Stephan Herrmann - Contribution for
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Sebastian Zarnekow - Contribution for
*   Bug 544921 - [performance] Poor performance with large source files
***/

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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
***/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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*   het@google.com - Bug 441790
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CatchParameterBinding.java

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
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*   Jesper Steen Moeller - Contributions for:
*   Bug 407297: [1.8][compiler] Control generation of parameter names by option
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across

loop boundaries
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 349326 - [1.7] new warning for missing try-with-resources

```
*           bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*       bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*     Jesper Steen Moller -
 Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
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*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 404728 - [1.8]NPE on QualifiedSuperReference error
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*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                     Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
                Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
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*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*   Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*   Bug 458396 - NPE in CodeStream.invoke()
*   Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*   Till Brychcy - Contribution for

* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
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```
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*   Bug 431408 - Java 8 (1.8) generics bug
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*   Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*   Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
*   Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*   Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*   Bug 462790 - [null] NPE in Expression.computeConversion()
 *   Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
*   Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**/

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*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* IBM Corporation - initial API and implementation
* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CharOperation.java
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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*     Stephan Herrmann - Contributions for
*         bug 292478 - Report potentially null across variable assignment
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field
 references
*         bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*         bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
```

```
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*       Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*       Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*       Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 400874 - [1.8][compiler]
```

Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
**********/

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*   bug 185682 - Increment/decrement operators mark local variables as read

```
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 458396 - NPE in CodeStream.invoke()
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*     Robert Roth <robert.roth.off@gmail.com> - Contributions for
*       Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
**********************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
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*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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*
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*       Bug 378674 - "The method can be declared as static" is wrong
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*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*            Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
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*     Stephan Herrmann - Contributions for
*            bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*            bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
**********************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*        bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java
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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource
 leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*   Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*   Jesper S Moller <jesper@selskabet.org> - Contributions for

```
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AllocationExpression.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/YieldStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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*     Stephan Herrmann - Contribution for
*        Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*        Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Argument.java
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*   Stephan Herrmann - Contributions for
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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*   tyeung@bea.com - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Stephan Herrmann - Contribution for bug 295551
*   Jesper S Moller   - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Frits Jalvingh   - contributions for bug 533830.
*   Red Hat Inc.   - add module-info Javadoc support
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*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

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*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*   Stephan Herrmann - Contribution for
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Jesper Steen Moller - Contributions for
*   Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
**********/

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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*       bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper S Moller - Contributions for
```

*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
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*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416190 - [1.8][null]

detect incompatible overrides due to null type annotations
* Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
* Bug 457079 - Regression: type inference
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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* wharley@bea.com - initial API and implementation
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* IBM Corporation - Java 8 support
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*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 401030 - [1.8][null] Null analysis support for lambda methods.
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*     David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 443347 - [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*   Bug 471611 - Error on hover on call to generic method with null annotation
*   Jesper Steen Moller - Contributions for
*   Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/batch/BatchCompiler.java

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*     Stephan Herrmann - Contributions for
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*         bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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*   Stephan Herrmann - Contributions for
*   bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416181 - [1.8][compiler][null] Invalid assignment is not rejected by the compiler
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*       Stephan Herrmann - Contribution for
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*********************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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*     Stephan Herrmann - Contributions for
*        bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThrowStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*     Stephan Herrmann - Contribution for
*        Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*        Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*        Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*        Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:
```

Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is exercised,
we will end up with duplicate objects (that share
the same TypeBinding.id => correctness is not an issue, but memory wastage is)
*/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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*   Stephan Herrmann - Contribution for
*   Bug 458396 - NPE in CodeStream.invoke()
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*   Stephan Herrmann - Contribution for
*   bug 331649 - [compiler][null] consider null annotations for fields
***/

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*    IBM Corporation - Fix for bug 341494
*    IBM Corporation - Fix for bug 328575
*    IBM Corporation - Java 8 support
*******************************************************************************/
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*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*         bug 370930 - NonNull annotation not considered for enhanced for loops
*         bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*         Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*         Bug 455723 - Nonnull argument not correctly inferred in loop
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                         Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   Stephan Herrmann - Contribution for
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
***/

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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*   Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java
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*   Stephan Herrmann - Contribution for
*   Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations

```
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
            bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
```

* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
***/

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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* bug 413958 - Function override returning inherited Generic Type
* Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 457079 - Regression: type

inference
**********/

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*   bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*   bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
**********/

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*   bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null]
 distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across loop boundaries
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 376263 - Bogus "Potential null pointer access" warning
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   bug 406384 - Internal error with I20130413
*   Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*   Jesper S Moller - contributions for
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**/

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*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first

field
* Bug 458396 - NPE in CodeStream.invoke()
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java

1.176 activation-api 1.2.1

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* /javassist-3-29-2-ga-sources-jar/javassist/expr/NewArray.java
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*
 /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/DefinePackageHelper.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Subroutine.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/JvstCodeGen.java
* /javassist-3-29-2-ga-sources-jar/javassist/convert/TransformBefore.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtMethod.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /javassist-3-29-2-ga-sources-jar/javassist/Loader.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/CodeGen.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-29-2-ga-sources-jar/javassist/runtime/DotClass.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeAttribute.java
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 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ConstPool.java
* /javassist-3-29-2-ga-sources-jar/javassist/SerialVersionUID.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/FieldDecl.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LongVector.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ExceptionsAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/TypedBlock.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LocalVariableAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ExceptionTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/RemoteRef.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/Proxy.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/Javac.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtMember.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewConstructor.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/ConstructorCall.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Executor.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/SyntaxError.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/SymbolTable.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/ClassMetaobject.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/Sample.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/Dump.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/MethodHandler.java

* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObject.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/ControlFlow.java
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 /javassist-3-29-2-ga-sources-jar/javassist/NotFoundException.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Sample.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Metaobject.java
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* /javassist-3-29-2-ga-sources-jar/javassist/compiler/CompileError.java
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* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotCreateException.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Bytecode.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ASTList.java
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 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/DefineClassHelper.java
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* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/ClassFile.java
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* /javassist-3-29-2-ga-sources-jar/javassist/expr/Instanceof.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/AssignExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Util.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/NoFieldException.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/Cast.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Metalevel.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /javassist-3-29-2-ga-sources-jar/javassist/URLClassPath.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/Descriptor.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/HotSwapper.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/rmi/RemoteException.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/MemberResolver.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Expr.java
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* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ArrayInit.java
*

/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/web/Webserver.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/StringL.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/TokenId.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Variable.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Reflection.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
*
/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtField.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/NewExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
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* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
*
/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
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* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java

* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
*
/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java

1.178 config 1.4.2

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1.179 jansi 2.4.0

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1.180 apache-commons-text 1.4

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1.181 simpleclient_servlet_common 0.16.0

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Found in path(s):
* /simpleclient-servlet-common-0-16-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_servlet_common/pom.xml

1.182 simpleclient-servlet 0.16.0

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1.183 ssl-config-core_2.13 0.4.3

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Manifest-Version: 1.0
Automatic-Module-Name: ssl.config.core
Bnd-LastModified: 1616500617128
Bundle-Description: ssl-config-core
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt;descri
ption=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: ssl-config-core
Bundle-SymbolicName: com.typesafe.sslconfig
Bundle-Vendor: Lightbend
Bundle-Version: 0.4.3
Created-By: 1.8.0_272 (Oracle Corporation)
Export-Package: com.typesafe.sslconfig.ssl;version="0.4.3";uses:="com.
typesafe.config,com.typesafe.sslconfig.util,javax.naming.ldap,javax.n
et.ssl,scala,scala.collection,scala.collection.immutable,scala.collec
tion.mutable,scala.reflect,scala.runtime,scala.util.matching,scala.ut
il.parsing.combinator,scala.util.parsing.input",com.typesafe.sslconfi
g.ssl.debug;version="0.4.3";uses:="com.typesafe.sslconfig.ssl,com.typ
esafe.sslconfig.util,scala,scala.collection.immutable,scala.reflect,s
cala.runtime",com.typesafe.sslconfig.ssl.tracing;version="0.4.3";uses
 :="com.typesafe.sslconfig.ssl,com.typesafe.sslconfig.util,javax.net.s
sl,scala,scala.collection.immutable,scala.reflect,scala.runtime",com.
typesafe.sslconfig.util;version="0.4.3";uses:="com.typesafe.config,sc
ala,scala.collection.immutable,scala.concurrent.duration,scala.reflec
t"
Implementation-Title: ssl-config-core
Implementation-Vendor: Lightbend
Implementation-Vendor-Id: com.typesafe
Implementation-Version: 0.4.3
Import-Package: com.typesafe.config;version="[1.4.0,1.5.0)",com.typesa
fe.sslconfig.ssl;version="[0.4,1)",com.typesafe.sslconfig.ssl.tracing
;version="[0.4,1)",com.typesafe.sslconfig.util;version="[0.4,1)",java
x.crypto,javax.crypto.interfaces,javax.crypto.spec,javax.naming,javax
.naming.ldap,javax.net,javax.net.ssl,javax.security.auth.x500,scala;v

ersion="[2.13,3)",scala.collection;version="[2.13,3)",scala.collectio
n.immutable;version="[2.13,3)",scala.collection.mutable;version="[2.1
3,3)",scala.concurrent.duration;version="[2.13,3)",scala.reflect;vers
ion="[2.13,3)",scala.runtime;version="[2.13,3)",scala.runtime.java8;v
ersion="[2.13,3)",scala.util;version="[2.13,3)",scala.util.control;ve
rsion="[2.13,3)",scala.util.matching;version="[2.13,3)",scala.util.pa
rsing.combinator;version="[1.1,2)",scala.util.parsing.input;version="
[1.1,2)"
Private-Package: com.typesafe.sslconfig.*
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))
"
Specification-Title: ssl-config-core
Specification-Vendor: Lightbend
Specification-Version: 0.4.3
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /ssl-config-core-2-13-0-4-3-jar/META-INF/MANIFEST.MF

1.184 org.apache.felix.cm.json 1.0.6

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1.185 org-osgi-util-function 1.2.0

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* /org-osgi-util-function-1-2-0-sources-jar/org/osgi/util/function/Consumer.java
*
 /org-osgi-util-function-1-2-0-sources-jar/org/osgi/util/function/Supplier.java
* /org-osgi-util-function-1-2-0-sources-jar/org/osgi/util/function/Exceptions.java
* /org-osgi-util-function-1-2-0-sources-jar/org/osgi/util/function/Function.java
* /org-osgi-util-function-1-2-0-sources-jar/org/osgi/util/function/package-info.java

1.186 org.apache.servicemix.bundles.spring-security-crypto 5.3.3.RELEASE_2

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1.187 jolokia 1.7.1

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Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0

Found in path(s):
* /jolokia-war-1-7-1-war/WEB-INF/lib/json-simple-1-1-1-jar/META-INF/MANIFEST.MF
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* /jolokia-war-1-7-1-war/META-INF/maven/org.jolokia/jolokia-war/pom.xml
* /jolokia-war-1-7-1-war/WEB-INF/lib/jolokia-jsr160-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
* /jolokia-war-1-7-1-war/WEB-INF/lib/jolokia-core-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
* /jolokia-war-1-7-1-war/WEB-INF/web.xml
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<project>
<modelVersion>4.0.0</modelVersion>
<groupId>com.googlecode.json-simple</groupId>
<artifactId>json-simple</artifactId>
<packaging>bundle</packaging>
<name>JSON.simple</name>
<version>1.1.1</version>
<description>A simple Java toolkit for JSON</description>
<url>http://code.google.com/p/json-simple/</url>
<licenses>
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<developer>
<id>Yidong</id>
<name>Yidong Fang</name>
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<role>architect</role>
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<timezone>+8</timezone>
</developer>
</developers>
<scm>
<connection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</connection>

```
    <developerConnection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</developerConnection>
   <url>http://json-simple.googlecode.com/svn/trunk/</url>
</scm>

<properties>
   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
   <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.10</version>
   </dependency>
</dependencies>

<build>
   <plugins>
      <plugin>
         <groupId>org.apache.felix</groupId>
         <artifactId>maven-bundle-plugin</artifactId>
         <version>2.3.6</version>
         <extensions>true</extensions>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-compiler-plugin</artifactId>
         <version>2.3.2</version>
         <configuration>

          <source>1.2</source>
           <target>1.2</target>
         </configuration>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-source-plugin</artifactId>
         <version>2.1.2</version>
         <executions>
           <execution>
             <id>attach-sources</id>
             <phase>verify</phase>
             <goals>
               <goal>jar-no-fork</goal>
             </goals>
           </execution>
         </executions>
      </plugin>
```

```
    </plugins>
  </build>

  <profiles>
   <profile>
     <id>release-sign-artifacts</id>
     <activation>
       <property>
         <name>performRelease</name>
         <value>true</value>
       </property>
     </activation>
     <build>
       <plugins>
         <plugin>
           <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-gpg-plugin</artifactId>
           <version>1.4</version>
           <executions>
             <execution>
               <id>sign-artifacts</id>
               <phase>verify</phase>
               <goals>
                 <goal>sign</goal>
               </goals>
             </execution>
           </executions>
         </plugin>
       </plugins>
     </build>
   </profile>
  </profiles>

</project>
```

Found in path(s):
* /jolokia-war-1-7-1-war/WEB-INF/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml

1.188 org.apache.servicemix.specs.activation-api-1.2.1 1.2.1_3

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1.189 apache-servicemix-specs-locator 2.10

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1.190 org.apache.felix.converter 1.0.14

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1.191 pax-swissbox-property 1.8.5

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Found in path(s):
* /pax-swissbox-property-1-8-5-sources-jar/org/ops4j/pax/swissbox/property/BundleContextPropertyResolver.java

1.192 apache-felix-file-install 3.7.4

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1.193 org-osgi-util-promise 1.2.0

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*******************************************************************************/
```

Found in path(s):
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/FailedPromisesException.java
*
/org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/package-info.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/Success.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/ResolvedPromiseImpl.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/PromiseImpl.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/TimeoutException.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/Deferred.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/Promises.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/PromiseFactory.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/Promise.java

* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/Failure.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/DeferredPromiseImpl.java
* /org-osgi-util-promise-1-2-0-sources-jar/org/osgi/util/promise/FailedPromiseImpl.java

1.194 jolokiajsr 1.7.1

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Found in path(s):
* /jolokia-jsr160-1-7-1-sources-jar/org/jolokia/jsr160/MBeanServerExecutorRemote.java
* /jolokia-jsr160-1-7-1-sources-jar/org/jolokia/jsr160/Jsr160RequestDispatcher.java

1.195 scala-java8-compat_2.13 1.0.2

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Manifest-Version: 1.0
Automatic-Module-Name: scala.compat.java8
Bnd-LastModified: 1635385851336
Bundle-Description: scala-java8-compat
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0;descriptio
n=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: scala-java8-compat
Bundle-SymbolicName: org.scala-lang.modules.scala-java8-compat
Bundle-Vendor: org.scala-lang.modules
Bundle-Version: 1.0.2
Created-By: 1.8.0_312 (Temurin)

Export-Package: scala.compat.java8;version="1.0.2";uses:="scala,scala.
collection,scala.collection.convert,scala.compat.java8.converterImpl,
scala.concurrent,scala.concurrent.duration,scala.jdk,scala.reflect,sc
ala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverter
s;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala
.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="sc
ala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterI
 mpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.co
nvert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.funct
ionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.ru
ntime",scala.compat.java8.wrappers;version="1.0.2"
Implementation-Title: scala-java8-compat
Implementation-URL: http://www.scala-lang.org/
Implementation-Vendor: org.scala-lang.modules
Implementation-Vendor-Id: org.scala-lang.modules
Implementation-Version: 1.0.2
Import-Package: scala;version="[2.13,3)",scala.collection;version="[2.
13,3)",scala.collection.convert;version="[2.13,3)",scala.collection.m
utable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="
[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.com
pat.java8.functionConverterImpls;version="[1.0,2)",scala.compat.java8
.wrappers;version="[1.0,2)",scala.concurrent;version="[2.13,3)",scala
.concurrent.duration;version="[2.13,3)",scala.concurrent.impl;version
="[2.13,3)",scala.jdk;version="[2.13,3)",scala.jdk.javaapi;version="[
 2.13,3)",scala.reflect;version="[2.13,3)",scala.runtime;version="[2.1
3,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.1
3,3)"
Private-Package: scala.concurrent.java8
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: scala-java8-compat
Specification-Vendor: org.scala-lang.modules
Specification-Version: 1.0.2
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /scala-java8-compat-2-13-1-0-2-2-jar/META-INF/MANIFEST.MF

1.196 scala-parser-combinators_2.13 1.1.2

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* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/NoPosition.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/ImplicitConversions.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/CharSequenceReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/Lexer.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/JavaTokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PositionCache.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/PackratParsers.scala
*
 /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PagedSeqReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/package.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/Parsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Position.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-
jar/scala/util/parsing/combinator/syntactical/StdTokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/Scanners.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/StdLexical.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/token/Tokens.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/Lexical.scala
*
 /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Positional.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/StreamReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/RegexParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/JSON.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/syntactical/TokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/CharArrayReader.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/OffsetPosition.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-
jar/scala/util/parsing/combinator/syntactical/StandardTokenParsers.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/token/StdTokens.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PagedSeq.scala
*
 /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/Parser.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/SubSequence.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/ScalaVersionSpecificPagedSeq.scala
* /scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Reader.scala

1.197 protobuf-java 3.21.12

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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/FieldType.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionSchemas.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
*
 /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/LazyStringArrayList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Extension.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CodedOutputStream.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RopeByteString.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SingleFieldBuilder.java
* /protobuf-java-3-21-12-sources-jar/google/protobuf/duration.proto
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CodedOutputStreamWriter.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BufferAllocator.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ProtocolStringList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BlockingService.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/StructuralMessageInfo.java
*
 /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageInfoFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ArrayDecoders.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldLite.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ManifestSchemaFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/RawMessageInfo.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/GeneratedMessageInfoFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ByteBufferWriter.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionRegistryFactory.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/BinaryWriter.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SmallSortedMap.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnsafeByteOperations.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SchemaUtil.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageOrBuilder.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldSchemas.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/FloatArrayList.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/SchemaFactory.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapField.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CanIgnoreReturnValue.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/TextFormatParseLocation.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageLiteToString.java
* /protobuf-java-3-21-12-sources-jar/google/protobuf/struct.proto
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ByteString.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionRegistryLite.java
*
/protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionRegistry.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/CheckReturnValue.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Protobuf.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionSchema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Schema.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/DiscardUnknownFieldsParser.java
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* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/TextFormat.java
* /protobuf-java-3-21-12-sources-jar/com/google/protobuf/Internal.java
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1.201 protobuf-java-util 3.21.12

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1671050288830
Build-Jdk: 11.0.13
Built-By: kfm
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: 3.21.12
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.21.12";uses:="com.go
ogle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[31.1,32)",com.google.co
mmon.io;version="[31.1,32)",com.google.common.math;version="[31.1,32)",
com.google.common.primitives;version="[31.1,32)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.21,4)",javax.annotation;version="[3.0,4)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):
* /protobuf-java-util-3-21-12-jar/META-INF/MANIFEST.MF

1.202 bcel 6.6.0

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1.203 objenesis 3.3

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1.205 jackson-dataformat-csv 2.14.2

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1.206 httpcomponents-client 5.2

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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_1.xsd
*
/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_3.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_3.xsd
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_1_4.xsd
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_ja.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_es.properties
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_fr.properties
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changed in transit. CONFIDENTIAL means that the application
CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_9.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_5_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_5_0.xsd
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Bnd-LastModified: 1652339954197
Build-Jdk: 11.0.2
Built-By: jenkins
Bundle-Description: Jakarta Servlet 6.0
Bundle-DocURL: https://www.eclipse.org
Bundle-License: http://www.eclipse.org/legal/epl-2.0, https://www.gnu.or
g/software/classpath/license.html
Bundle-ManifestVersion: 2
Bundle-Name: Jakarta Servlet
Bundle-SymbolicName: jakarta.servlet-api
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 6.0.0
Export-Package: jakarta.servlet;uses:="jakarta.servlet.annotation,jakart
a.servlet.descriptor";version="6.0.0",jakarta.servlet.annotation;uses:=
"jakarta.servlet";version="6.0.0",jakarta.servlet.descriptor;version="6
.0.0",jakarta.servlet.http;uses:="jakarta.servlet";version="6.0.0",jaka
rta.servlet.resources;version="6.0.0"
Extension-Name: jakarta.servlet
Implementation-Vendor: Eclipse Foundation
Implementation-Vendor-Id: org.eclipse
Implementation-Version:
6.0.0
Import-Package: jakarta.servlet,jakarta.servlet.annotation,jakarta.servl
et.descriptor
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Specification-Vendor: Eclipse Foundation
Specification-Version: 6.0
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /jakarta-servlet-api-6-0-0-jar/META-INF/MANIFEST.MF

1.209 gson 2.10.1

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Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11
Bnd-LastModified: 1673019830620
Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://w
ww.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN
SE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g
it:https://github.com/google/gson.git/gson",developer-connection="scm:g
it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project
Bundle-Version: 2.10.1
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.googl
e.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.
 10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;v
ersion="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation
s
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):
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1.210 proto-google-common-protos 2.9.0

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* /proto-google-common-protos-2-9-0-1-jar/google/api/usage.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/endpoint.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/service.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/consumer.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/distribution.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/error_reason.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/context.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/date.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/quota.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/field_behavior.proto
*
 /proto-google-common-protos-2-9-0-1-jar/google/api/httpbody.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/routing.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/system_parameter.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/datetime.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/color.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/billing.proto
* /proto-google-common-protos-2-9-0-1-jar/google/logging/type/log_severity.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/decimal.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/config_change.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/latlng.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/metric.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/control.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/money.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/month.proto
*
 /proto-google-common-protos-2-9-0-1-jar/google/api/logging.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/client.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/log.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/timeofday.proto
* /proto-google-common-protos-2-9-0-1-jar/google/geo/type/viewport.proto
* /proto-google-common-protos-2-9-0-1-jar/google/rpc/status.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/fraction.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/documentation.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/interval.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/postal_address.proto
* /proto-google-common-protos-2-9-0-1-jar/google/logging/type/http_request.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/dayofweek.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/source_info.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/label.proto
*
 /proto-google-common-protos-2-9-0-1-jar/google/type/quaternion.proto
* /proto-google-common-protos-2-9-0-1-jar/google/rpc/error_details.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/backend.proto

* /proto-google-common-protos-2-9-0-1-jar/google/type/expr.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/annotations.proto
* /proto-google-common-protos-2-9-0-1-jar/google/longrunning/operations.proto
* /proto-google-common-protos-2-9-0-1-jar/google/rpc/code.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/calendar_period.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/phone_number.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/resource.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/http.proto
* /proto-google-common-protos-2-9-0-1-jar/google/cloud/extended_operations.proto
* /proto-google-common-protos-2-9-0-1-jar/google/rpc/context/attribute_context.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/monitored_resource.proto
*
/proto-google-common-protos-2-9-0-1-jar/google/api/auth.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/visibility.proto
* /proto-google-common-protos-2-9-0-1-jar/google/api/monitoring.proto
* /proto-google-common-protos-2-9-0-1-jar/google/type/localized_text.proto
* /proto-google-common-protos-2-9-0-1-jar/google/cloud/audit/audit_log.proto
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1.211 commons-fileupload 1.5

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1.212 tenacity 8.2.2

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1.218 snake-yaml 2.0

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*
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* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java

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1.222 msgpack 1.0.5

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1.223 error_prone_annotations 2.18.0

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1.224 everit-json-schema 1.5.1

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Manifest-Version: 1.0
Bnd-LastModified: 1490641248412
Build-Jdk: 1.8.0_121
Built-By: Balazs
Bundle-Description: Implementation of the JSON Schema Core Draft v4 sp
ecification built with the org.json API
Bundle-DocURL: http://www.everit.org
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: everit-org/json-schema
Bundle-SymbolicName: org.everit.json.schema
Bundle-Vendor: Everit Kft.
Bundle-Version: 1.5.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.everit.json.schema;version="1.5.1";uses:="org.json
",org.everit.json.schema.loader;version="1.5.1";uses:="org.everit.jso
n.schema,org.json"
Import-Package: com.google.common.collect;version="[19.0,20)",com.goog
le.common.net;version="[19.0,20)",org.apache.commons.validator.routin
es;version="[1.5,2)",org.json;version="[20160810.0,20160811)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool:
Bnd-3.2.0.201605172007

Found in path(s):
* /org-everit-json-schema-1-5-1-jar/META-INF/MANIFEST.MF

1.225 httplib 0.22.0

1.225.1 Available under license :

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1.226 slf4j 2.0.7

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* /slf4j-2-0-7-sources-jar/org/forgerock/i18n/slf4j/LocalizedLoggerFactory.java
* /slf4j-2-0-7-sources-jar/org/forgerock/i18n/slf4j/package-info.java

1.227 asm 1.0

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* /asm-1-0-sources-2-jar/net/minidev/asm/ASMUtil.java
* /asm-1-0-sources-2-jar/net/minidev/asm/DynamicClassLoader.java
* /asm-1-0-sources-2-jar/net/minidev/asm/Accessor.java
* /asm-1-0-sources-2-jar/net/minidev/asm/BeansAccess.java

1.228 plexus-sec-dispatcher 2.0

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* /plexus-sec-dispatcher-2-0-sources-1-jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcher.java
* /plexus-sec-dispatcher-2-0-sources-1-
jar/org/sonatype/plexus/components/sec/dispatcher/DefaultSecDispatcher.java
*
 /plexus-sec-dispatcher-2-0-sources-1-jar/org/sonatype/plexus/components/sec/dispatcher/PasswordDecryptor.java
* /plexus-sec-dispatcher-2-0-sources-1-jar/org/sonatype/plexus/components/sec/dispatcher/SecUtil.java
* /plexus-sec-dispatcher-2-0-sources-1-
jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcherException.java

1.229 plexus-cipher 2.0

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* /plexus-cipher-2-0-sources-1-jar/org/sonatype/plexus/components/cipher/DefaultPlexusCipher.java
* /plexus-cipher-2-0-sources-1-jar/org/sonatype/plexus/components/cipher/PlexusCipher.java
* /plexus-cipher-2-0-sources-1-jar/org/sonatype/plexus/components/cipher/PlexusCipherException.java

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0.3.10/src/java/org/apache/commons/ssl/Base64.java $
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1.230 plexus-utils 3.3.1

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1.231 grpc-protobuf-nano 1.6.0

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```

Found in path(s):
* /grpc-protobuf-nano-1-6-0-sources-2-jar/io/grpc/protobuf/nano/package-info.java

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```

Found in path(s):
* /grpc-protobuf-nano-1-6-0-sources-2-jar/io/grpc/protobuf/nano/NanoProtoInputStream.java
* /grpc-protobuf-nano-1-6-0-sources-2-jar/io/grpc/protobuf/nano/NanoUtils.java
* /grpc-protobuf-nano-1-6-0-sources-2-jar/io/grpc/protobuf/nano/MessageNanoFactory.java

1.232 jolokia-osgi 1.7.1

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Found in path(s):
* /jolokia-osgi-1-7-1-1-jar/META-INF/maven/org.jolokia/jolokia-osgi/pom.xml
* /jolokia-osgi-1-7-1-1-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
* /jolokia-osgi-1-7-1-1-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
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<project>
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.googlecode.json-simple</groupId>
  <artifactId>json-simple</artifactId>
  <packaging>bundle</packaging>
  <name>JSON.simple</name>
  <version>1.1.1</version>
  <description>A simple Java toolkit for JSON</description>
  <url>http://code.google.com/p/json-simple/</url>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    </license>
  </licenses>
  <developers>
    <developer>
      <id>Yidong</id>
      <name>Yidong Fang</name>

```
      <roles>
        <role>architect</role>
        <role>developer</role>
      </roles>
      <timezone>+8</timezone>
    </developer>
</developers>
<scm>
    <connection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</connection>
     <developerConnection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</developerConnection>
    <url>http://json-simple.googlecode.com/svn/trunk/</url>
</scm>

<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.10</version>
    </dependency>
</dependencies>

<build>
    <plugins>
      <plugin>
        <groupId>org.apache.felix</groupId>
        <artifactId>maven-bundle-plugin</artifactId>
        <version>2.3.6</version>
        <extensions>true</extensions>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>2.3.2</version>
        <configuration>

         <source>1.2</source>
          <target>1.2</target>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-source-plugin</artifactId>
        <version>2.1.2</version>
        <executions>
```

```
            <execution>
              <id>attach-sources</id>
              <phase>verify</phase>
              <goals>
                <goal>jar-no-fork</goal>
              </goals>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>

    <profiles>
      <profile>
        <id>release-sign-artifacts</id>
        <activation>
          <property>
            <name>performRelease</name>
            <value>true</value>
          </property>
        </activation>
        <build>
          <plugins>
            <plugin>
              <groupId>org.apache.maven.plugins</groupId>
               <artifactId>maven-gpg-plugin</artifactId>
              <version>1.4</version>
              <executions>
                <execution>
                  <id>sign-artifacts</id>
                  <phase>verify</phase>
                  <goals>
                    <goal>sign</goal>
                  </goals>
                </execution>
              </executions>
            </plugin>
          </plugins>
        </build>
      </profile>
    </profiles>

</project>
```

Found in path(s):
* /jolokia-osgi-1-7-1-1-jar/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml

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Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0

Found in path(s):
* /jolokia-osgi-1-7-1-1-jar/lib/json-simple-1-1-1-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Bnd-LastModified: 1632063420031
Build-Jdk: 1.8.0_292
Built-By: roland
Bundle-Activator: org.jolokia.osgi.JolokiaActivator
Bundle-ClassPath: .,lib/json-simple-1.1.1.jar
Bundle-Description: Jolokia agent exposing JMX via HTTP/JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jolokia Agent
Bundle-SymbolicName: org.jolokia.osgi
Bundle-Version: 1.7.1
Created-By: Apache Maven Bundle Plugin
Embed-Dependency: json-simple;inline=false,jolokia-core;inline=true,jolo
kia-jsr160;inline=true
Embed-Directory: lib
Embedded-Artifacts: lib/json-simple-1.1.1.jar;g="com.googlecode.json-sim
ple";a="json-simple";v="1.1.1"
Export-Package: org.jolokia.osgi.security;uses:="javax.servlet.http,org.
jolokia.util,org.osgi.service.http,org.jolokia.restrictor,javax.managem
ent,org.osgi.framework,javax.security.auth.callback,javax.security.auth
,javax.security.auth.login,org.osgi.util.tracker";version="1.7.1",org.j
olokia.osgi.servlet;uses:="org.osgi.service.http,org.osgi.framework,jav
ax.servlet";version="1.7.1",org.jolokia.restrictor;uses:="javax.managem
ent,javax.xml.parsers,org.w3c.dom,org.xml.sax";version="1.7.1",org.jolo
kia.util;uses:="javax.servlet.http,javax.xml.datatype,javax.management,
javax.management.relation,javax.crypto,javax.crypto.spec,javax.security

.auth.callback";version="1.7.1",org.jolokia.converter;uses:="org.joloki
a.converter.object,org.jolokia.converter.json";version="1.7.1",org.jolo
kia.converter.json;uses:="org.jolokia.converter.object,javax.management
,org.jolokia.util,javax.management.openmbean";version="1.7.1",org.jolok
ia.converter.object;uses:="javax.management.openmbean,org.jolokia.util,
javax.management";version="1.7.1"
Import-Package: javax.crypto,javax.crypto.spec,javax.management,javax.ma
nagement.openmbean,javax.management.relation,javax.management.remote,ja
vax.naming,javax.rmi.ssl,javax.security.auth,javax.security.auth.callba
ck,javax.security.auth.login,javax.servlet,javax.servlet.http,javax.xml
,javax.xml.datatype,javax.xml.parsers,org.jolokia.converter;version="[1
.7,2)",org.jolokia.osgi.servlet;version="1.7.1",org.jolokia.restrictor;
version="1.7.1",org.jolokia.util;version="1.7.1",org.osgi.framework;ver
sion="[1.0.0,2.0.0)",org.osgi.service.cm;version="[1.0.0,2.0.0)";resolu
tion:=optional,org.osgi.service.http;version="[1.0.0,2.0.0)";resolution
:=optional,org.osgi.service.log;version="[1.0.0,2.0.0)",org.osgi.util.t
racker;version="[1.0.0,2.0.0)",org.w3c.dom,org.xml.sax
Tool: Bnd-1.50.0

Found in path(s):
* /jolokia-osgi-1-7-1-1-jar/META-INF/MANIFEST.MF

1.233 json-smart 2.4.10

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Found in path(s):
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONUtil.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserBase.java

* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserStream.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
*
 /json-smart-2-4-10-sources-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/CompessorMapper.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/FakeMapper.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONStyle.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/JsonReader.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/ParseException.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/BeansMapper.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONAware.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONStreamAware.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONStreamAwareEx.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONValue.java
*
 /json-smart-2-4-10-sources-jar/net/minidev/json/writer/CollectionMapper.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserReader.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONObject.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONAwareEx.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserString.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONArray.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserMemory.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JStylerObj.java
* /json-smart-2-4-10-sources-jar/net/minidev/json/JSONNavi.java
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* /json-smart-2-4-10-sources-jar/net/minidev/json/writer/DefaultMapper.java

1.234 accessors-smart 2.4.9

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Manifest-Version: 1.0

Bnd-LastModified: 1678198115874
Build-Jdk: 11.0.18
Built-By: uriel
Bundle-Description: Java reflect give poor performance on getter sette
r an constructor calls, accessors-smart use ASM to speed up those cal
ls.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.9
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;version="2.4.9";uses:="org.objectweb.a
sm",net.minidev.asm.ex;version="2.4.9"
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e
x;version="[2.4,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

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* /accessors-smart-2-4-9-jar/META-INF/MANIFEST.MF

1.235 protoc 3.11.4

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1.240 iputils 20221126-r2

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1.245 python-setuptools 67.7.2

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1.246 libucontext 1.2-r2

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1.247 json-smart 2.4.9

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* /json-smart-2-4-9-1-jar/META-INF/maven/net.minidev/json-smart/pom.xml
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Manifest-Version: 1.0
Build-Jdk-Spec: 11
Bundle-Description: JSON (JavaScript Object Notation) is a lightweight
 data-interchange format. It is easy for humans to read and write. It
 is easy for machines to parse and generate. It is based on a subset
of the JavaScript Programming Language, Standard ECMA-262 3rd Edition
 - December 1999. JSON is a text format that is completely language i
ndependent but uses conventions that are familiar to programmers of t
he C-family of languages, including C, C++, C#, Java, JavaScript, Per
l, Python, and many others. These properties make JSON an ideal data-
interchange language.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: json-smart
Bundle-SymbolicName: net.minidev.json-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.9
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package:

net.minidev.json;version="2.4.9";uses:="net.minidev.as
m,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.wr
iter",net.minidev.json.annotate;version="2.4.9",net.minidev.json.pars
er;version="2.4.9";uses:="net.minidev.json.writer",net.minidev.json.r
eader;version="2.4.9";uses:="net.minidev.json",net.minidev.json.write
r;version="2.4.9";uses:="net.minidev.json,net.minidev.json.parser"
Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json;ver
sion="[2.4,3)",net.minidev.json.annotate;version="[2.4,3)",net.minide
v.json.parser;version="[2.4,3)",net.minidev.json.reader;version="[2.4
,3)",net.minidev.json.writer;version="[2.4,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /json-smart-2-4-9-1-jar/META-INF/MANIFEST.MF

1.248 chardet 5.1.0

1.248.1 Available under license :

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1.249 asm 9.5

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* /asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
*
 /asm-9-5-sources-1-jar/org/objectweb/asm/Constants.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ModuleVisitor.java

* /asm-9-5-sources-1-jar/org/objectweb/asm/Symbol.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/CurrentFrame.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Context.java
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* /asm-9-5-sources-1-jar/org/objectweb/asm/Label.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Handler.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Edge.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Type.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ClassReader.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/TypePath.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/MethodWriter.java
*
/asm-9-5-sources-1-jar/org/objectweb/asm/TypeReference.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/RecordComponentWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ByteVector.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/ModuleWriter.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Handle.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-9-5-sources-1-jar/org/objectweb/asm/Frame.java
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1.250 wget 1.21.4-r0

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1.251 servlet-api 4.0.4

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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/LocalStrings.properties
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/LocalStrings_fr.properties
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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/AsyncContext.java
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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/PushBuilder.java
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/MultipartConfigElement.java
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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionIdListener.java
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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/WebConnection.java
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*/
/**
    * Constructor to establish non-empty getRolesAllowed and/or <tt>TransportGuarantee.CONFIDENTIAL</tt>.
    *
    * @param guarantee <tt>TransportGuarantee.NONE</tt> or <tt>TransportGuarantee.CONFIDENTIAL</tt>
     * @param roleNames the names of the roles that are to be allowed access
    */

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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionAttributeListener.java
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/Servlet.java

* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestListener.java
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpServletResponse.java
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletContextListener.java
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestAttributeListener.java
* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpServletRequest.java
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* /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletResponse.java
*
 /jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionBindingListener.java
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1.252 servlet-api 6.0.0

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- jsp_3_0.xsd
- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
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* /servlet-api-2-4-sources-5-jar/javax/servlet/LocalStrings_ja.properties
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* /servlet-api-2-4-sources-5-jar/javax/servlet/Filter.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletResponse.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/UnavailableException.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestAttributeEvent.java
*
 /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionBindingEvent.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletRequest.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/Servlet.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletResponse.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletInputStream.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionAttributeListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/FilterChain.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/Cookie.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequest.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionBindingListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/GenericServlet.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletContextAttributeEvent.java
*
 /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServlet.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletContextAttributeListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletRequestWrapper.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionActivationListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletConfig.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletException.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSession.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletResponseWrapper.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletContext.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/SingleThreadModel.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletContextListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestEvent.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionContext.java

* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletContextEvent.java
*
/servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestWrapper.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpUtils.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/FilterConfig.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestAttributeListener.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletOutputStream.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/ServletResponseWrapper.java
* /servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionEvent.java

1.254 servlet-api 6.0

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1.258 libffi 3.4.4-r3

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1.259 musl-obstack 1.2.3-r2

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1.260 libc-utils 0.7.2-r5

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1.261 aop-alliance 2.6.1

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<Embed-Dependency>\'a0*;scope=compile;inline=true\'a0</Embed-Dependency>\
<!--\
We set a mandatory attribute for these packages, because we don't\
want them to be visible to just anyone. An importer must specify\

the mandatory attribute for it to be able to import. See \
section #3.6.5 of OSGi R4 spec.\
Why is this required?\
See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
By doing this, we allow user have any version of apache-commons lib\
in their application class loader hierarchy. They don't even have to\
set delegation=false in sun-web.xml! This is the true advantage of\
using OSGi.
Sahoo.\
\
-->\
<Export-Package>org.aopalliance.*;version=$\{aopalliance.version\}</Export-Package>\
<Private-Package>!*</Private-Package>\
</instructions>\
</configuration>\
<executions>\
<execution>\
<id>osgi-manifest</id>\
<phase>process-classes</phase>\
<goals>\
<goal>manifest</goal>\
</goals>\
</execution>\
</executions>\
</plugin>\
</plugins>\
</build>\
<dependencies>\
<dependency>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>$\{aopalliance.version\}</version>\
<optional>true</optional>\
</dependency>\
</dependencies>\
</project>\
}

Found in path(s):
* /aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

1.262 python-requests 2.31.0

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1.263 animal-sniffer-annotation 1.23

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1.264 asm-tree 9.5

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* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/ModuleProvideNode.java
*
 /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/InsnList.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java

*
/asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
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* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
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* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/Util.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/RecordComponentNode.java
*
/asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-tree-9-5-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
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1.265 asm-commons 9.5

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*
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* /asm-commons-9-5-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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 /asm-commons-9-5-sources-1-jar/org/objectweb/asm/commons/FieldRemapper.java
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* /asm-commons-9-5-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.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 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
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  * @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 GeneratorAdapter}. Subclasses must not use this constructor.
  * 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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1.266 iputils-ping 20221126-r2

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1.268 tre 0.8.0-r2

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1.269 libcap 2.69-r1

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- [Gregory Beauregard](https://github.com/GBeauregard/pyffstream)
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- [Dennis Brakhane](https://github.com/brakhane)
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1.274 pyparsing 3.1.0

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1.275 osgi-service-event 1.4.1

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Found in path(s):
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/package-info.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/EventProperties.java
*
 /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/propertytypes/EventTopics.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/annotations/RequireEventAdmin.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/EventAdmin.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/TopicPermission.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/propertytypes/EventDelivery.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/EventHandler.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/EventConstants.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/propertytypes/EventFilter.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/Event.java
* /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/annotations/package-info.java
*
 /org-osgi-service-event-1-4-1-sources-jar/org/osgi/service/event/propertytypes/package-info.java

1.276 maven-resolver-named-locks 1.8.2

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1.279 jolokia-osgi 1.7.2

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* It has be tailored to suite our needs, so some things likes compression and
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*
* @author roland
* @since 13/09/15
*/
/**
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* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/restrictor/policy/RequestTypeChecker.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/restrictor/policy/MBeanPolicyConfig.java
*
 /jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/list/MBeanInfoData.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/list/DataUpdater.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/object/CompositeTypeConverter.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/restrictor/policy/HttpMethodChecker.java
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* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/JmxListRequest.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/AuthorizationHeaderParser.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/ServiceObjectFactory.java
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* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/Version.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/backend/Config.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/LogHandler.java
*
/jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/ListHandler.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/simplifier/DomElementSimplifier.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/JolokiaActivator.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/JmxVersionRequest.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/backend/MBeanServerHandler.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/JettyDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/ServerHandle.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/backend/ConfigMBean.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/restrictor/policy/CorsChecker.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/JmxReadRequest.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/simplifier/ClassSimplifier.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/TomcatDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/simplifier/SimplifierExtractor.java
*
/jolokia-osgi-1-7-2-sources-jar/org/jolokia/backend/BackendManager.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/object/StringToObjectConverter.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/AbstractServerDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/WriteHandler.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/Converters.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/DateExtractor.java

* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/JsonConvertOptions.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/CompositeDataExtractor.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/TabularDataExtractor.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/ListExtractor.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/ExecHandler.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/JmxRequest.java
*
 /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/detector/AbstractOsgiServerDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/list/NotificationDataUpdater.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/history/HistoryEntry.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/GeronimoDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/EscapeUtil.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/JBossDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/detector/VirgoDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/DebugStore.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/servlet/JolokiaServlet.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/backend/RequestDispatcher.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/simplifier/UrlSimplifier.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/http/AgentServlet.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/IpChecker.java
*
 /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/ProxyTargetConfig.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/restrictor/PolicyRestrictor.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/util/HttpMethod.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/servlet/JolokiaContext.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/security/BasicAuthenticationHttpContext.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/backend/executor/MBeanServerExecutor.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/handler/ReadHandler.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/config/ProcessingParameters.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/config/Configuration.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/restrictor/AllowAllRestrictor.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/JmxRequestFactory.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/security/DefaultHttpContext.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/config/ConfigExtractor.java
*
 /jolokia-osgi-1-7-2-sources-jar/org/jolokia/detector/ServerDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/converter/json/simplifier/FileSimplifier.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/request/JmxExecRequest.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/jsr160/Jsr160RequestDispatcher.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/detector/FelixDetector.java
* /jolokia-osgi-1-7-2-sources-jar/org/jolokia/osgi/detector/KnopflerfishDetector.java
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1.280 maven-builder-support 3.8.6

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1.281 maven-resolver-impl 1.8.2

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1.283 apache-felix-http-servlet-api 1.2.0

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1.284 apache-felix-framework 7.0.5

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1.294 maven-resolver-transport-wagon 1.8.2

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1.295 maven-model-builder 3.8.6

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1.297 maven-resolver-spi 1.8.2

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1.301 osgi-service-component 1.5.0

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Found in path(s):
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/propertytypes/SatisfyingConditionTarget.java
*
 /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/package-info.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/ComponentException.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/dto/ComponentDescriptionDTO.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/dto/ComponentConfigurationDTO.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/dto/SatisfiedReferenceDTO.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/ComponentInstance.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/package-info.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/ComponentContext.java
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* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/propertytypes/ServiceRanking.java
*
 /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/ServiceComponentRuntime.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/dto/ReferenceDTO.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/ComponentConstants.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/propertytypes/ServiceDescription.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/AnyService.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/ComponentServiceObjects.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/propertytypes/package-info.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/dto/UnsatisfiedReferenceDTO.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/runtime/dto/package-info.java
*
 /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/propertytypes/ExportedService.java
* /org-osgi-service-component-1-5-0-sources-jar/org/osgi/service/component/ComponentFactory.java

1.302 servlet-api 1.2.0

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1.303 wagon-provider-api 3.5.2

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signature of Ty Coon, 1 April 1989
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1.315 org-osgi-util-promise 1.3.0

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```

Found in path(s):
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/package-info.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/Deferred.java
*

/org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/Success.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/TimeoutException.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/ResolvedPromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/FailedPromisesException.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/Promises.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/FailedPromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/Promise.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/PromiseFactory.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/PromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/DeferredPromiseImpl.java
* /org-osgi-util-promise-1-3-0-sources-jar/org/osgi/util/promise/Failure.java

1.316 apache-felix-configadmin 1.9.26

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1.317 hibernate-validator 8.0.1.Final

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Background application control
io.vertx.core.impl.launcher.commands.ListCommandFactory
io.vertx.core.impl.launcher.commands.StartCommandFactory

io.vertx.core.impl.launcher.commands.StopCommandFactory

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* /vertx-core-4-4-4-jar/META-INF/services/io.vertx.core.spi.launcher.CommandFactory

1.321 autocommand 2.2.2

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1.322 bouncy-castle 1.76

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* https://github.com/eclipse-ee4j/jaf

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JUnit (4.12)

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1.323 mariadb-java-client 3.1.4

1.323.1 Available under license :

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Manifest-Version: 1.0
Created-By: 11.0.18 (Ubuntu)
Build-Jdk-Spec: 11
Export-Package: org.mariadb.jdbc;uses:="javax.sql,javax.transaction.xa,o
rg.mariadb.jdbc.client,org.mariadb.jdbc.client.util,org.mariadb.jdbc.ex
port,org.mariadb.jdbc.plugin";version="3.1.4",org.mariadb.jdbc.client;u
ses:="org.mariadb.jdbc,org.mariadb.jdbc.client.util,org.mariadb.jdbc.ex
port,org.mariadb.jdbc.message";version="3.1.4",org.mariadb.jdbc.client.
util;uses:="org.mariadb.jdbc.client,org.mariadb.jdbc.client.socket";ver
sion="3.1.4",org.mariadb.jdbc.client.socket;uses:="org.mariadb.jdbc,org
.mariadb.jdbc.client,org.mariadb.jdbc.client.util";version="3.1.4",org.
mariadb.jdbc.message;uses:="org.mariadb.jdbc,org.mariadb.jdbc.client,or
g.mariadb.jdbc.client.socket,org.mariadb.jdbc.client.util,org.mariadb.j
dbc.export";version="3.1.4",org.mariadb.jdbc.type;uses:="org.mariadb.jd
bc.client";version="3.1.4",org.mariadb.jdbc.export;uses:="org.mariadb.j
 dbc,org.mariadb.jdbc.client";version="3.1.4",org.mariadb.jdbc.plugin;us
es:="javax.net.ssl,org.mariadb.jdbc,org.mariadb.jdbc.client,org.mariadb
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g.mariadb.jdbc.plugin,org.mariadb.jdbc.type";version="3.1.4",org.mariad
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db.jdbc.client,org.mariadb.jdbc.client.socket,org.mariadb.jdbc.plugin";
version="3.1.4",org.mariadb.jdbc.plugin.authentication.addon;uses:="org
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al.aws;uses:="org.mariadb.jdbc,org.mariadb.jdbc.plugin";version="3.1.4"
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 stem;uses:="org.mariadb.jdbc,org.mariadb.jdbc.plugin";version="3.1.4",o
rg.mariadb.jdbc.plugin.tls.main;uses:="javax.net.ssl,org.mariadb.jdbc,o
rg.mariadb.jdbc.export,org.mariadb.jdbc.plugin";version="3.1.4"
Import-Package: javax.naming,javax.naming.ldap,javax.management,javax.sq
l,org.slf4j;resolution:=optional;version="[2.0,3)",javax.net;resolution
:=optional,javax.net.ssl;resolution:=optional,com.sun.jna;resolution:=o
ptional;version="[5.12,6)",com.sun.jna.platform.win32;resolution:=optio
nal;version="[5.12,6)",javax.transaction.xa;resolution:=optional,waffle
.windows.auth;resolution:=optional,waffle.windows.auth.impl;resolution:
=optional,org.ietf.jgss;resolution:=optional,javax.security.auth.login;
resolution:=optional,javax.security.auth.x500;resolution:=optional,soft
ware.amazon.awssdk.auth.credentials;resolution:=optional,software.amazo
n.awssdk.regions;resolution:=optional,software.amazon.awssdk.regions.pr

oviders;resolution:=optional,software.amazon.awssdk.services.rds;resolu
tion:=optional,software.amazon.awssdk.services.rds.model;resolution:=op
tional
Multi-Release: true
Bnd-LastModified: 1682605032503
Bundle-Description: JDBC driver for MariaDB and MySQL
Bundle-Developers: mariadbJdbcDevelopers;name="mariadb jdbc developers"
Bundle-DocURL: https://mariadb.com/kb/en/mariadb/about-mariadb-connector
-j/
Bundle-License: "LGPL-2.1"
Bundle-ManifestVersion: 2
Bundle-Name: mariadb-java-client
Bundle-SCM: url="https://github.com/mariadb-corporation/mariadb-connecto
r-j",connection="scm:git:git://github.com/mariadb-corporation/mariadb-c
onnector-j.git",developer-connection="scm:git:git@github.com:MariaDB/ma
riadb-connector-j.git",tag=HEAD
Bundle-SymbolicName: mariadb-java-client
Bundle-Vendor: mariadb.com
Bundle-Version: 3.1.4
Private-Package: org.mariadb.jdbc.client.column,org.mariadb.jdbc.client.
context,org.mariadb.jdbc.client.impl,org.mariadb.jdbc.client.result,org
.mariadb.jdbc.client.result.rowdecoder,org.mariadb.jdbc.client.socket.i
mpl,org.mariadb.jdbc.client.tls,org.mariadb.jdbc.codec,org.mariadb.jdbc
.message.client,org.mariadb.jdbc.message.server,org.mariadb.jdbc.messag
e.server.util,org.mariadb.jdbc.plugin.authentication,org.mariadb.jdbc.p
lugin.authentication.addon.gssapi,org.mariadb.jdbc.plugin.authenticatio
n.standard.ed25519,org.mariadb.jdbc.plugin.authentication.standard.ed25
519.math,org.mariadb.jdbc.plugin.authentication.standard.ed25519.math.e
d25519,org.mariadb.jdbc.plugin.authentication.standard.ed25519.spec,org
.mariadb.jdbc.plugin.credential,org.mariadb.jdbc.plugin.tls,org.mariadb
.jdbc.pool,org.mariadb.jdbc.util,org.mariadb.jdbc.util.constants,org.ma
riadb.jdbc.util.log,org.mariadb.jdbc.util.options
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /mariadb-java-client-3-1-4-jar/META-INF/MANIFEST.MF

1.324 commons-lang3 3.13.0

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1.325 py3-parsing-pyc 3.1.1-r0

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* /okio-3-5-0-sources-1-jar/commonMain/okio/internal/RealBufferedSink.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/internal/RealBufferedSource.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/internal/SegmentedByteString.kt
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* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha1.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Md5.kt
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* /okio-3-5-0-sources-1-jar/commonMain/okio/HashingSink.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/PosixVariant.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSink.kt
* /okio-3-5-0-sources-1-jar/appleMain/okio/ApplePosixVariant.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/Path.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileSystem.kt
*
 /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingFileSystem.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileMetadata.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSink.kt
* /okio-3-5-0-sources-1-jar/unixMain/okio/UnixPosixVariant.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/PosixFileSystem.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/Cinterop.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/Path.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Hmac.kt
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* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/RealBufferedSource.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/Segment.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/SegmentPool.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/SegmentPool.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/ForwardingSource.kt

1.329 pax-url-commons 2.6.14

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* /pax-url-commons-2-6-14-sources-jar/org/ops4j/pax/url/commons/handler/ConnectionFactory.java
* /pax-url-commons-2-6-14-sources-jar/org/ops4j/pax/url/commons/handler/HandlerActivator.java

1.330 pax-url-aether 2.6.14

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* /pax-url-aether-2-6-14-sources-jar/org/ops4j/pax/url/mvn/internal/AetherBasedResolver.java
* /pax-url-aether-2-6-14-sources-jar/org/ops4j/pax/url/mvn/internal/ManualWagonProvider.java

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* /pax-url-aether-2-6-14-sources-jar/org/ops4j/pax/url/mvn/internal/config/MavenConfigurationImpl.java
* /pax-url-aether-2-6-14-sources-jar/org/ops4j/pax/url/mvn/internal/config/MavenConfiguration.java
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1.331 pax-url-aether-support 2.6.14

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1.332 snake-yaml 2.2

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jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
*
/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
*
/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
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/snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/internal/Logger.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
* /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
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
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* /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
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* /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
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
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Found in path(s):
* /snakeyaml-2-2-sources-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml
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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

1.333 jandex 3.1.2

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1.334 vertx-grpc 4.4.4

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1.335 libproc2 4.0.4-r0

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1.336 procps 4.0.4-r0

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1.338 python-setuptools 68.2.2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
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the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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

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
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
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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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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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1.340 jetty-util 9.4.52.v20230823

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

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* 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
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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

MortBay

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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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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

These artifacts replace/modify OpenJDK classes. The modifications
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
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1.342 websocket-api 9.4.52.v20230823

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

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* 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

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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

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

Apache

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

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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* 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
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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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
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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

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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* 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

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http://openjdk.java.net/legal/gplv2+ce.html

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

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* 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
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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
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 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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1.347 hsql-db 2.7.2

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*/
/**
* Comprehensive information about the database as a whole.
* <P>
* This interface is implemented by driver vendors to let users know the capabilities
* of a Database Management System (DBMS) in combination with
* the driver based on JDBC technology
* ("JDBC driver") that is used with it.  Different relational DBMSs often
 support
* different features, implement features in different ways, and use different
* data types.  In addition, a driver may implement a feature on top of what the
* DBMS offers.  Information returned by methods in this interface applies
* to the capabilities of a particular driver and a particular DBMS working
* together. Note that as used in this documentation, the term "database" is
* used generically to refer to both the driver and DBMS.
* <P>
* A user for this interface is commonly a tool that needs to discover how to
* deal with the underlying DBMS.  This is especially true for applications
* that are intended to be used with more than one DBMS. For example, a tool might use the method
* <code>getTypeInfo</code> to find out what data types can be used in a
* <code>CREATE TABLE</code> statement.  Or a user might call the method
* <code>supportsCorrelatedSubqueries</code> to see if it is possible to use
* a correlated subquery or <code>supportsBatchUpdates</code> to
 see if it is
* possible to use batch updates.
* <P>
* Some <code>DatabaseMetaData</code> methods return lists of information
```

```
* in the form of <code>ResultSet</code> objects.
* Regular <code>ResultSet</code> methods, such as
* <code>getString</code> and <code>getInt</code>, can be used
* to retrieve the data from these <code>ResultSet</code> objects.  If
* a given form of metadata is not available, an empty <code>ResultSet</code>
* will be returned. Additional columns beyond the columns defined to be
* returned by the <code>ResultSet</code> object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their <B>column label</B>.
* <P>
* Some <code>DatabaseMetaData</code> methods take arguments that are
* String patterns.  These arguments all have names such as fooPattern.
* Within a pattern String, "%" means match any substring of 0 or more
* characters, and "_" means match any one character. Only metadata
* entries matching the search
 pattern are returned. If a search pattern
* argument is set to <code>null</code>, that argument's criterion will
* be dropped from the search.
* <P>
* A method that gets information about a feature that the driver does not
* support will throw an <code>SQLException</code>.
* In the case of methods that return a <code>ResultSet</code>
* object, either a <code>ResultSet</code> object (which may be empty) is
* returned or an <code>SQLException</code> is thrown.
*
* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h1>HSQLDB-Specific Information:</h1>
*
* <h2>Metadata Table Production</h2>
*
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ('admin' users in older HSQLDB parlance) could expect trouble-free
 access to
* all metadata.<p>
*
* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime.  In the event that no better
* alternative is found, the default minimal (completely restricted) provider
* is selected.  Under this scheme, it is possible for third party packagers to
* create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time |
* hostile environment) metadata table production scenarios. To learn more
```

```
* about this option, interested parties can review the documentation and source
* code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>
*
* Please also note that in addition to the metadata tables produced to
* directly support this
 class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. <p>
*
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the {@link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...)} and {@link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...)} results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively.<p>
*
* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects.</p>
*
* <h2>Schema Metadata</h2>
*
* The SQL SCHEMA concept became
 fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.
*
* <h2>Catalog Metadata</h2>
*
* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>
*
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2011), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond.<p>
*
* Similarly, starting with HSQLDB 2.x, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt;
 RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
```

```
* catalogs within a single session, not even in a one-at-a-time fashion.
*
* <h2>Index Metadata</h2>
*
* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the <code>approximate</code> argument of {@link #getIndexInfo
* getIndexInfo()} as no data is returned for CARDINALITY and PAGES coloumns.
*
* <h2>Notes for developers extending metadata table production</h2>
*
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order.  The reason for this is that results typically come
* back much faster when no &amp;quot;ORDER BY&amp;quot; clause is used. <p>
*
* As such, when adding, extending
 or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract &amp;quot;ORDER BY&amp;quot; clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
*
* <hr>
*
* (fredt@users)<br>
* (campbell-burnet@users)
* </div>
* <!-- end release-specific documentation -->
*
* @author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.7.2
* @since HSQLDB 1.9.0
* @see org.hsqldb.dbinfo.DatabaseInformation
*/

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexAVLMemory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Tree.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Grid.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAVL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/SQLStatements.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/NodeAVL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferCommon.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAVLDisk.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexAVL.java
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*/
/**
   * provides cross-package access to the proprietary (i.e. non-JDBC)
   * HSQLDB session interface. <P>
   *
   * @return the underlying sessionProxy for this connection
   */
```

Found in path(s):
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCConnection.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/PreprocessorException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Parser.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/IResolver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Token.java
No license file was found, but licenses were detected in source scan.

/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Clear.png: binary file matches
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Close.png: binary file matches
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Colors.png: binary file matches

Found in path(s):
* /bin/grep
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Found in path(s):
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataChange.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXID.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TableSpaceManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/BlockObjectStore.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ReferenceObject.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptWriterTextColumnNames.java
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*/
/* These are commands which may contain nested commands and/or which
   * require the closing semicolon to send to the DB engine.
   * The BEGIN and DECLARE needed for PL/SQL probably do not need to

```
    * terminate the line, as we have it specified here, but I'd rather not be
    * too liberal with proprietary SQL like this,
 because it's easy to
    * envision other proprietary or non-proprietary commands beginning with
    * DECLARE or BEGIN. */
```

Found in path(s):
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Defines.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementTypes.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementResultUpdate.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/PostgresTransferHelper.java
*

/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Tokenizer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserDDL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCPool.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/OpTypes.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DatabaseManagerSwing.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/error/Error.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataTable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlTimer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/DatabaseURL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileHybrid.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/CommonSwing.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Database.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/WebServerConnection.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformationFull.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/OracleTransferHelper.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LobManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryUUIDType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/HsqlSocketFactory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Log.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BooleanType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLDisk.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/IntervalType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarFileInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/GranteeManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/AsciiInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/HsqldbTransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDataSource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLHybrid.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LineGroupReader.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementInsert.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserDQL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SqlInvariants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarReader.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/NumberType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCSQLXML.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/RowType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCParameterMetaData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Tokens.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ScannerSearchAlgorithm.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/FunctionCustom.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ClientConnectionHTTP.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformation.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptReaderText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCNClob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Logger.java

*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/HsqlSocketFactorySecure.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserTable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/Grantee.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SetFunctionValueAggregate.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLDiskData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Expression.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ValidatingResourceBundle.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerConfiguration.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/McKoiTransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCBlob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCBlobFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/InOutUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/ConnectionDialogCommon.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/DatabaseType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCStatement.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/IndexAVLCheck.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SchemaManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementDML.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCCommonDataSource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataChangeMemory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAction.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/MainInvoker.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/DTIType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Preprocessor.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowActionBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserRoutine.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileReader8.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCClobClient.java
* /hsqldb-2-7-2-sources-2-jar/module-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/HsqlDateTime.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileAccess.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileAccessRes.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/HsqlException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ArrayType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/BasicResolver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCStatementBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableDerived.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultLob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ClosableCharArrayWriter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarGeneratorMain.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionLogical.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/RCData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataFileCacheSession.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementDMQL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/ConnectionSetting.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarFileOutputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerAcl.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BlobDataID.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAShadowFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TypeInvariants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarGenerator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionArithmetic.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCompound.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDriver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Line.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionJSON.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCRowId.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileNIO.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqltoolRB.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/RefCapablePropertyResourceBundle.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/LineType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableWorks.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/QuerySpecification.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BitType.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/AsciiOutputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/PgType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/UserManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RangeVariableResolver.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Table.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionColumn.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DatabaseManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Constraint.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlToolSprayer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/NodeAVLDiskLarge.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/AuthBeanMultiplexer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionInterface.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Cache.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/HsqldbSlaveAuthBean.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataFileDefrag.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/OrderedHashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/OdbcUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LobStoreRAFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSchemaDefinition.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FrameworkLogger.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileOps.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/DatabaseManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/Result.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobDataID.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferSQLText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlConsoleHandler.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformationMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/SimpleLog.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/QueryExpression.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataFileCache.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlTool.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SortAndSlice.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LockFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCResultSetMetaData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarReaderMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DataAccessPoint.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionLike.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/HsqlProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreDataChange.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/java/JavaSystem.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileSettings.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Document.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/EventLogInterface.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionArrayAggregate.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptWriterBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BlobData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputTextLog.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCClobFile.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSchema.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/Collation.java
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\q to Quit.
\? lists Special Commands.
:? lists Edit-Buffer/History commands.
*? lists PL commands.
/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with '\' and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ';' (which executes the
statement), or a blank line (which moves the statement into the edit buffer
without executing).
After turning on variable expansion with command "*" (or
any other PL
command), PL variables may be used in most commands like so: *{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s
operate only on the command text after the * or \ prefix, if any.

Found in path(s):
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCClob.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerMV2PL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/DateTimeType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/ScriptRunner.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RangeVariable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Scanner.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerCommon.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCPreparedStatement.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSession.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManager2PL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCommand.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionOp.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Session.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DITableInfo.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionContext.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextCache.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/Type.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/CharacterType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/FunctionSQL.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerMVCC.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCCallableStatement.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/Server.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/HsqlDatabaseProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/Right.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserCommand.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCResultSet.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/CodeSwitcher.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/NodeAVLDisk.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StringConverter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Transfer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/TransferTable.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/map/ValuePool.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultMetaData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/OdbcPreparedStatement.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlArrayList.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SchemaObjectSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LongKeyIntValueHashMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/RecoverableOdbcFailure.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/DoubleIntIndex.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowDiskDataChange.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowInsertSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntLookup.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowInsertInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionTable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextTableStorageManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/trigger/Trigger.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAVLDiskLarge.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/trigger/package-info.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/DenyException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementHandler.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarHeaderField.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCConnectionEventListener.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/RB.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StringUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/CharArrayWriter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/DbBackupMain.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/User.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/Iterator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlByteArrayOutputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/TimeData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptReaderDecode.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/GrantConstants.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarMalformatException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/map/BitMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/KMPSearchAlgorithm.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/GridSwing.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/TokenList.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/resources/ResourceBundleHandler.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Traceable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/ClobInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HashMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCSavepoint.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/MultiValueHashMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowIterator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/PeriodDefinition.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/OrderedIntKeyHashMap.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Row.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/InputStreamInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileReader16.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionOrderBy.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataSpaceManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowOutputBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/java/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/OtherType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/PersistentStoreCollectionSession.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowOutputBinary.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Token.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/OrderedHashMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ColumnSchema.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StringInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/PIFData.java
*
 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ReaderInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DoubleIntArrayCachedObject.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RangeGroup.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlThreadFactory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserDML.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCBlobClient.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/OrderedLongHashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/PersistentStore.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionAccessor.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/BasicTextJdkLogFormatter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/SimpleStore.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/HsqlNameManager.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/LobStoreInJar.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/StatementLineTypes.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/ConnectionDialogSwing.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RowAVLDiskData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TextTable.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/TokenSource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TableUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/OrderedIntHashSet.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/TypedComparator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowOutputTextLog.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultProperties.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionValue.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionColumnAccessor.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ArrayUtil.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/map/HashIndex.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/IntArrayCachedObject.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/IntervalMonthData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ReadWriteLockDummy.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/package-info.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/StatementPortal.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/LongPair.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ColumnBase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/RoutineSchema.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCPooledDataSource.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/HelperFactory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ArrayCounter.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BlobInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/DbBackup.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/DataOutputStream.java
*
/hsqldb-2-7-2-sources-2-jar/org/hsqldb/map/BaseHashMap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TableSpaceManagerBlocks.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/InformixTransferHelper.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/StringComparator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/WebServer.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TablePeriodWorks.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/ObjectComparator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowOutputBinaryEncode.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DataAccessPointException.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TriggerDef.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntHashSet.java

* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/CachedObject.java
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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/scriptio/ScriptWriterText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/WrapperIterator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLHybridExtended.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/TriggerDefSQL.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RowStoreAVLMemory.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXAConnection.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/ScriptLoader.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/index/Index.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TableSpaceManagerSimple.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlHeap.java
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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/FontDialogSwing.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlByteArrayInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/PersistentStoreCollectionDatabase.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionPeriod.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/Calculator.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool.flex
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/pool/JDBCXAConnectionWrapper.java

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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/JDBCTypes.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputBinaryDecode.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlTaskQueue.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/ServerConstants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/OdbcPacketInputStream.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputTextQuoted.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorClient.java
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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LongValueHashMap.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RandomAccessInterface.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/ConnectionDialog.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowOutputText.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/List.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/SchemaObject.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/FileArchiver.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/LdapAuthBean.java

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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/LongDeque.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCArrayBasic.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/IntKeyHashMapConcurrent.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DirectoryBlockCachedObject.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCursor.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/rowio/RowInputBinary.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/auth/AuthUtils.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BlobType.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementExpression.java
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 /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlArrayHeap.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/DataSpaceManagerSimple.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlToolError.java
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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/JavaObjectData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextFileReader.java

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* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryData.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/result/ResultConstants.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/AppendableException.java
* /hsqldb-2-7-2-sources-2-jar/org/hsqldb/Statement.java
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1.349 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.

/*
[The "BSD licence"]
Copyright (c) 2006 Kay Roepke
All rights reserved.

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modification, are permitted provided that the following conditions
are met:
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2. Redistributions in binary form must reproduce the above copyright
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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.
*/

/*
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.

```
/*
* [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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*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
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*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
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*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

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

```
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
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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*/

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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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,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.

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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)
 ;
```

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.

<!--
~ Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
~ Use of this file is governed by the BSD 3-clause license that
~ can be found in the LICENSE.txt file in the project root.
-->

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/META-INF/maven/org.antlr/antlr4/pom.xml
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
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*   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
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* 3. The name of the author may not be used to endorse or promote products
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* 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.
*/

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"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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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):

*

/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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```
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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.
*/
@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"
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
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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)
  ;

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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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>
>>
```

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* /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
*
 /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
*
 /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
*
 /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
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /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
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ModelElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /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
*
/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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```
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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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```
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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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```
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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"
```

Found in path(s):
* /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 {
/*
[The "BSD licence"]
```

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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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*/

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.

/*
* [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.
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 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.

```
// 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) 2013 Terence Parr
*  Copyright (c) 2013 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
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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.
*/

// 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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*/
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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):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java

1.350 urllib3 1.26.17

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1.351 failsafe 3.3.2

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* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/FutureLinkedList.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Call.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CallImpl.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/FailsafeExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedSupplier.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FallbackBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/FallbackImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Functions.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedConsumer.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/AsyncExecutionImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/ContextualRunnable.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/ClosedState.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitBreakerImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/ContextualSupplier.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FailsafeException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/Scheduler.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreaker.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/HalfOpenState.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/SyncExecutionImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/ExecutionImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedFunction.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/OpenState.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedPredicate.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/ExecutionContext.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RetryPolicyImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Assert.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/AsyncRunnable.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/FailsafeFuture.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/DefaultScheduledFuture.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Failsafe.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedBiPredicate.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerOpenException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitState.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/AsyncSupplier.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedRunnable.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicy.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/Fallback.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerBuilder.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiterBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadFullException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/BulkheadImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Bulkhead.java
*
 /failsafe-3-3-2-sources-jar/dev/failsafe/internal/BulkheadExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimitExceededException.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiter.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/BurstyRateLimiterStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/SmoothRateLimiterStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterImpl.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiterConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterStats.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Maths.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Lists.java
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* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/FailurePolicy.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/DelegatingScheduler.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/AsyncExecutionInternal.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/DelayablePolicy.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CountingCircuitStats.java
*

/failsafe-3-3-2-sources-jar/dev/failsafe/event/EventListener.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicyConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionAttemptedEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitBreakerExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/TimeoutExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionScheduledEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FailurePolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/TimeoutBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/PolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/CircuitBreakerStateChangedEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/EventHandler.java
*
/failsafe-3-3-2-sources-jar/dev/failsafe/PolicyListeners.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/DelayablePolicyConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/FallbackExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/TimeoutConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/PolicyExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Timeout.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Policy.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/SyncExecutionInternal.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/AsyncExecution.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/DelayablePolicyBuilder.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/Execution.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FallbackConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/TimedCircuitStats.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/ExecutionResult.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/FailurePolicyConfig.java
*
/failsafe-3-3-2-sources-jar/dev/failsafe/internal/RetryPolicyExecutor.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/PolicyConfig.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/spi/ExecutionInternal.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/event/ExecutionCompletedEvent.java
* /failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/RandomDelay.java

1.352 antlr 4.13.1

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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"

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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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*/

/** 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"
```

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"

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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*/

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

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

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

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

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

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

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
```

```
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

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

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
```

```
  :  (binary)=>          binary
                    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  (prefix)=>          prefix
                    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |  (suffix)=>          suffix
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

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

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

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

nonLeftRecur
  :  ^(ALT elementOptions? element+)
  ;

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

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

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

```
elementOptions
  : ^(ELEMENT_OPTIONS elementOption*)

 ;

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

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

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

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

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

block
```

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

alternative
 : ^(ALT elementOptions? element+)
  ;

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

Found in path(s):

*

/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')+
 ;
```

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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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g
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```

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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.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
```

```
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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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```
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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();
    }
  ;
```

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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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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```
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```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ANTLRParser.g
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```
/*
* [The "BSD license"]
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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.
*/

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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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
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```

```
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NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ATNBuilder.g
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```
/*
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* can be found in the LICENSE.txt file in the project root.
*/
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /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
*
/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
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/MutableInt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/ParserFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /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
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ErrorType.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /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

* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /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
*
 /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
*
 /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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/Utils.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
*

/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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /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
*
/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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /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
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /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
*
/antlr4-4-13-1-sources-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/OutputModelController.java

* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ErrorSeverity.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/StarBlock.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/Python3Target.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Grammar.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/LabelElementPair.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Lexer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/Attribute.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
*
 /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/ActionSniffer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /antlr4-4-13-1-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java
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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java
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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)
  ;
```

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* /antlr4-4-13-1-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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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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*  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):
* /antlr4-4-13-1-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
 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.
*/

/** 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
*  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.
*/

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"
```

Found in path(s):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
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 -->
```

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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):
* /antlr4-4-13-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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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,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"
```

Found in path(s):

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

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1.353 jaxb-core 2.3.8

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* /jline-3-21-0-sources-3-jar/org/jline/reader/Expander.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/WCWidth.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Reference.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/InputStreamReader.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Levenshtein.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ShutdownHooks.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/MouseSupport.java
*
/jline-3-21-0-sources-3-jar/org/jline/utils/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Binding.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultExpander.java

* /jline-3-21-0-sources-3-jar/org/jline/terminal/Cursor.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Source.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/DiffHelper.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/history/package-info.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Widget.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/spi/Pty.java
*
/jline-3-21-0-sources-3-jar/org/jline/utils/OSUtils.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/UndoTree.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedString.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ExecHelper.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ClosedException.java
* /jline-3-21-0-sources-3-jar/org/jline/keymap/KeyMap.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/MouseEvent.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/UserInterruptException.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Macro.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/Attributes.java
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* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionManager.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/Connection.java
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* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
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* /jline-3-21-0-sources-3-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/TTop.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/SystemRegistryImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Styles.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/TerminalBuilder.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/TailTipWidgets.java
*
 /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Nano.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/LineReader.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/DefaultPrinter.java
* /jline-3-21-0-sources-3-jar/org/jline/console/ArgDesc.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedStyle.java
* /jline-3-21-0-sources-3-jar/org/jline/console/SystemRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Commands.java
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* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/Widgets.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/EndOfFileException.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
*
 /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/console/CmdDesc.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/console/CommandRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/Builtins.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/AutosuggestionWidgets.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/JlineCommandRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Display.java
*
 /jline-3-21-0-sources-3-jar/org/jline/console/CmdLine.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/spi/JnaSupport.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /jline-3-21-0-sources-3-jar/org/jline/console/CommandMethods.java
* /jline-3-21-0-sources-3-jar/org/jline/console/ScriptEngine.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultParser.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/ConsoleOptionGetter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/spi/JansiSupport.java
* /jline-3-21-0-sources-3-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/CompletionMatcher.java
*
 /jline-3-21-0-sources-3-jar/org/jline/console/CommandInput.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Log.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/ColorPalette.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Less.java

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```

Found in path(s):
* /jline-3-21-0-sources-3-jar/org/jline/reader/SyntaxError.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/EOFError.java

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* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionListener.java
*
/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionFilter.java
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* /jline-3-21-0-sources-3-jar/org/jline/builtins/Options.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
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
darkred
deeppink4
purple4
purple4a
purple3
blueviolet
orange4
grey37
mediumpurple4
slateblue3
slateblue3a
royalblue1
chartreuse4
darkseagreen4
paleturquoise4
steelblue
steelblue3
cornflowerblue
chartreuse3
darkseagreen4a
cadetblue
cadetbluea
skyblue3
steelblue1
chartreuse3a
palegreen3

seagreen3
aquamarine3
mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
darkslategray2
darkreda
deeppink4a
darkmagenta
darkmagentaa
darkviolet
purplea
orange4a
lightpink4
plum4
mediumpurple3
mediumpurple3a
slateblue1
yellow4
wheat4
grey53
lightslategrey
mediumpurple
lightslateblue
yellow4a
darkolivegreen3
darkseagreen
lightskyblue3
lightskyblue3a
skyblue2
chartreuse2a
darkolivegreen3a
palegreen3a
darkseagreen3
darkslategray3
skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a
darkslategray1
red3
deeppink4b

mediumvioletred
magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
rosybrown
grey63
mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
lightsteelblue3
lightsteelblue
yellow3
darkolivegreen3b
darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
darkseagreen2a
darkseagreen1
paleturquoise1
red3a
deeppink3
deeppink3a
magenta3a
magenta3b
magenta2
darkorange3a
indianreda
hotpink3a
hotpink2
orchid
mediumorchid1
orange3
lightsalmon3a

lightpink3
pink3
plum3
violet
gold3a
lightgoldenrod3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
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yellow2
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darkolivegreen1a
darkseagreen1a
honeydew2
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deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
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hotpinka
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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
grey11
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grey39
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grey58
grey62
grey66
grey70
grey74
grey78
grey82
grey85
grey89
grey93

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in path(s):
* /jline-3-21-0-sources-3-jar/org/jline/utils/colors.txt
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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
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
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
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
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

cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
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
down_half_line, hd, hd
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
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ

exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_ctab, kctab, kt
key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd

key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
key_f44, kf44, FY
key_f45, kf45, FZ

key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48, Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr

key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
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

lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
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
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2

reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
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
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
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
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
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device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
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get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
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-3-21-0-sources-3-jar/org/jline/utils/AnsiWriter.java
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* /jline-3-21-0-sources-3-jar/org/jline/utils/Colors.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleSource.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/KillRing.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/InputRC.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleExpression.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleFactory.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/Terminal.java
*
 /jline-3-21-0-sources-3-jar/org/jline/reader/Completer.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/keymap/BindingReader.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Curses.java

* /jline-3-21-0-sources-3-jar/org/jline/builtins/NfaMatcher.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/ParsedLine.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/CompletingParsedLine.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/StyleResolver.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/Size.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/MaskingCallback.java
* /jline-3-21-0-sources-3-jar/org/jline/style/Styler.java
*
 /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlocking.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/History.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/ExternalTerminal.java
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* /jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/Ssh.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleResolver.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleBundle.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-3-21-0-sources-3-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/SimpleMaskingCallback.java
*
 /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/PumpReader.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/style/NopStyleSource.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/Telnet.java
* /jline-3-21-0-sources-3-jar/org/jline/style/StyledWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/style/InterpolationHelper.java

* /jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Buffer.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
*
 /jline-3-21-0-sources-3-jar/org/jline/style/StyleColor.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingPumpReader.java
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* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/Status.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Editor.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/Candidate.java
* /jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /jline-3-21-0-sources-3-jar/org/jline/utils/InfoCmp.java
* /jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-3-21-0-sources-3-jar/org/jline/builtins/Tmux.java
*
 /jline-3-21-0-sources-3-jar/org/jline/builtins/ConfigurationPath.java

1.355 byte-buddy 1.14.9

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1.356 windows-service-wrapper 2.3.0

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* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/EntryNode.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/AbstractEntrySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableIterator.java
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* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/MutableEntrySet.java
* /triemap-1-3-1-sources-jar/tech/pantheon/triemap/ImmutableEntrySet.java
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 /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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*/

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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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* <p>
 * The encoding and decoding algorithm in this class has been derived from
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jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java

* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
*
 /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
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jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
*
/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
```

```
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
```

```
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                  AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
```

```
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
```

```
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
*
 /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/HeadersUtils.java

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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
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 /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
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* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

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* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/AddressResolver.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
*
/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/HostsFileParser.java
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* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/package-info.java
* /netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/collection/CharCollections.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/collection/IntObjectMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/collection/ByteCollections.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ObjectUtil.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ThrowableUtil.java

* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /netty-common-4-1-100-final-sources-
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* /netty-common-4-1-100-final-sources-
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*
/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /netty-common-4-1-100-final-sources-
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* /netty-common-4-1-100-final-sources-
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* /netty-common-4-1-100-final-sources-
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/netty-common-4-1-100-final-sources-
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* /netty-common-4-1-100-final-sources-
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java

* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
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*
/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscUnboundedArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
*

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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
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/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/package-info.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/Timeout.java
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 /netty-common-4-1-100-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/Signal.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/Attribute.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java

* /netty-common-4-1-100-final-sources-jar/io/netty/util/Timer.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/EventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/PlatformDependent.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/StringUtil.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/NettyRuntime.java
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 /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/SuppressForbidden.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/Promise.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/package-info.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/Recycler.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/package-info.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ConstantPool.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/Future.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/Version.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ReferenceCounted.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/PromiseTask.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeakException.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/PendingWrite.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FutureListener.java
*

/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/PlatformDependent0.java
No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>

 <artifactId>jctools-core</artifactId>
 <groupId>org.jctools</groupId>
 <version>3.1.0</version>
 <name>Java Concurrency Tools Core Library</name>
 <description>Java Concurrency Tools Core Library</description>
 <packaging>bundle</packaging>

 <dependencies>
  <dependency>
   <groupId>org.hamcrest</groupId>
   <artifactId>hamcrest-all</artifactId>
   <version>${hamcrest.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>${junit.version}</version>
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   <artifactId>guava-testlib</artifactId>
   <version>${guava-testlib.version}</version>
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 </dependencies>
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    <artifactId>maven-surefire-plugin</artifactId>
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    <configuration>
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      <include>*</include>
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 </configuration>
</plugin>
<plugin>
 <groupId>org.apache.felix</groupId>
 <artifactId>maven-bundle-plugin</artifactId>
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  <instructions>
   <Import-Package>sun.misc;resolution:=optional</Import-Package>
  </instructions>
 </configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>3.2.0</version>
 <executions>
  <execution>
   <id>attach-sources</id>
   <phase>verify</phase>
   <goals>
    <goal>jar-no-fork</goal>
   </goals>
  </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
 <version>3.1.1</version>
 <configuration>
  <additionalOptions>
   <additionalOption>-Xdoclint:none</additionalOption>
  </additionalOptions>
  <source>8</source>
 </configuration>
 <executions>
  <execution>
   <id>attach-javadocs</id>
   <goals>
    <goal>jar</goal>
   </goals>
  </execution>
 </executions>
</plugin>
</plugins>
</build>
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<distributionManagement>
 <repository>
  <id>bintray-jctools-jctools</id>
  <name>jctools-jctools</name>
  <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
 <license>
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License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>
```

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 <properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
```

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 in path(s):
* /netty-common-4-1-100-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/SuppressJava6Requirement.java
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Found in path(s):
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/LongCounter.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
*
 /netty-common-4-1-100-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/AsyncMapping.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

Found in path(s):
* /netty-common-4-1-100-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/Cleaner.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/CleanerJava9.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
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Found in path(s):
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java
*
/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/NetUtilSubstitutions.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/NetUtilInitializations.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java
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* /netty-common-4-1-100-final-sources-jar/io/netty/util/ByteProcessorUtils.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ResourcesUtil.java
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Found in path(s):
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/MathUtil.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ByteProcessor.java
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Found in path(s):

* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/IntegerHolder.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeakHint.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/Mapping.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/AsciiString.java
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 /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/DomainNameMapping.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java

1.363 netty-transport 4.1.100.Final

1.363.1 Available under license :

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Found in path(s):
* /netty-transport-4-1-100-final-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties

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Manifest-Version: 1.0
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
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.100.Final
Built-By: norman
Bnd-LastModified: 1696948198155
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
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
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esolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.re
solver,io.netty.util";version="4.1.100",io.netty.channel;uses:="io.ne
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;version="4.1.100",io.netty.channel.embedded;uses:="io.netty.channel"
;version="4.1.100",io.netty.channel.group;uses:="io.netty.channel,io.
netty.util.concurrent";version="4.1.100",io.netty.channel.internal;ve
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100",io.netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel
,io.netty.util.concurrent";version="4.1.100",io.netty.channel.socket;
uses:="io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.1
00",io.netty.channel.socket.nio;uses:="io.netty.buffer,io.netty.chann
el,io.netty.channel.nio,io.netty.channel.socket";version="4.1.100",io
.netty.channel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.
netty.channel.oio,io.netty.channel.socket";version="4.1.100"
Bundle-Name: Netty/Transport
Bundle-Version: 4.1.100.Final
Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_382
Implementation-URL: https://netty.io/netty-transport/

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1.364 httpcomponents-client 4.5.14

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1.365 h2 2.2.220

1.365.1 Available under license :

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*
* This code is based on the LZF algorithm from Marc Lehmann. It is a
* re-implementation of the C code:

```
* http://cvs.schmorp.de/liblzf/lzf_c.c?view=markup
* http://cvs.schmorp.de/liblzf/lzf_d.c?view=markup
*
* According to a mail from Marc Lehmann, it's OK to use his algorithm:
* Date: 2010-07-15 15:57
* Subject: Re: Question about LZF licensing
* ...
* The algorithm is not copyrighted (and cannot be copyrighted afaik) - as long
* as you wrote everything yourself, without copying my code, that's just fine
* (looking is of course fine too).
* ...
*
* Still I would like to keep his copyright info:
*
* Copyright (c) 2000-2005 Marc Alexander Lehmann <schmorp@schmorp.de>
* Copyright (c) 2005 Oren J. Maurice <oymaurice@hazorea.org.il>
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```

Found in path(s):

* /h2-2-2-220-sources-2-jar/org/h2/compress/CompressLZF.java

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* Initial Developer: H2 Group
* Iso8601:
* Initial Developer: Robert Rathsack (firstName dot lastName at gmx dot de)
*/

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/util/CloseWatcher.java
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*/

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/mode/ToDateParser.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/ToCharFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/mode/ToDateTokenizer.java
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Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/util/CacheSecondLevel.java
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* Initial Developer: Alessandro Ventura
*/

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/Authenticator.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/RealmConfig.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/AuthenticationException.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/PropertyConfig.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/H2AuthConfig.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/impl/JaasCredentialsValidator.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/impl/AssignRealmNameRole.java

* /h2-2-2-220-sources-2-jar/org/h2/security/auth/Configurable.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/impl/StaticRolesMapper.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/AuthConfigException.java
*
 /h2-2-2-220-sources-2-jar/org/h2/security/auth/HasConfigProperties.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/ConfigProperties.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/DefaultAuthenticator.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/impl/StaticUserCredentialsValidator.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/impl/LdapCredentialsValidator.java
* /h2-2-2-220-sources-2-jar/org/h2/api/UserToRolesMapper.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/AuthenticatorFactory.java
* /h2-2-2-220-sources-2-jar/org/h2/api/CredentialsValidator.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/AuthenticationInfo.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/H2AuthConfigXml.java
* /h2-2-2-220-sources-2-jar/org/h2/security/auth/UserToRolesMapperConfig.java
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*/

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueJson.java
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```
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*
* According to a mail from Alan Tucker to Chris H Miller from IBM,
* the algorithm is in the public domain:
*
* Date: 2010-07-15 15:57
* Subject: Re: Applied Combinatorics Code
*
* Chris,
* The combinatorics algorithms in my textbook are all not under patent
* or copyright. They are as much in the public domain as the solution to any
* common question in an undergraduate mathematics course, e.g., in my
* combinatorics course, the solution to the problem of how many arrangements
* there are of the letters in the word MATHEMATICS. I appreciate your due
* diligence.
* -Alan
*/
```

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/util/Permutations.java
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```
/*
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*/
/**
   * Converts a value to a LocalDate.
   *
   * This method should only be called from Java 8 or later version.
   *
   * @param value
   *          the value to convert
   * @param provider
   *          the cast information provider
   * @return the LocalDate
   */
```

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/util/JSR310Utils.java

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Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcConnection.java
* /h2-2-2-220-sources-2-jar/org/h2/store/LobStorageRemoteInputStream.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcDatabaseMetaDataBackwardsCompat.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/condition/ConditionAndOrN.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueLob.java
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* Iso8601: Initial Developer: Robert Rathsack (firstName dot lastName at gmx
* dot de)
*/

Found in path(s):
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*
* Nicolas Fortin, Atelier SIG, IRSTV FR CNRS 24888
* Support for the operator "&&" as an alias for SPATIAL_INTERSECTS
*/

Found in path(s):
* /h2-2-2-220-sources-2-jar/org/h2/command/Parser.java
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Found in path(s):

* /h2-2-2-220-sources-2-jar/org/h2/util/LegacyDateTimeUtils.java
* /h2-2-2-220-sources-2-jar/org/h2/util/geometry/JTSUtils.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueRow.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueTimestamp.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DropSequence.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcLob.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/type/DataType.java
* /h2-2-2-220-sources-2-jar/org/h2/server/web/WebApp.java
* /h2-2-2-220-sources-2-jar/org/h2/bnf/BnfVisitor.java
* /h2-2-2-220-sources-2-jar/org/h2/bnf/RuleElement.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/GrantRevoke.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/HashFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/SysInfoFunction.java
*
 /h2-2-2-220-sources-2-jar/org/h2/jmx/DocumentedMBean.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DropTrigger.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/LengthFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueBytesBase.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/condition/BooleanTest.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/tx/CommitDecisionMaker.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/ParameterInterface.java
* /h2-2-2-220-sources-2-jar/org/h2/index/VirtualTableIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/util/geometry/GeoJsonUtils.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/MathFunction1.java
* /h2-2-2-220-sources-2-jar/org/h2/util/CacheObject.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueDate.java
* /h2-2-2-220-sources-2-jar/org/h2/result/LazyResult.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/niomapped/FilePathNioMapped.java
* /h2-2-2-220-sources-2-jar/org/h2/index/QueryExpressionCursor.java
*
 /h2-2-2-220-sources-2-jar/org/h2/bnf/RuleFixed.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/RandFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbcx/JdbcDataSourceBackwardsCompat.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/niomem/FileNioMemData.java
* /h2-2-2-220-sources-2-jar/org/h2/util/NetUtils.java
* /h2-2-2-220-sources-2-jar/org/h2/index/Cursor.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/SetFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/db/MVSpatialIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/analysis/Window.java
* /h2-2-2-220-sources-2-jar/org/h2/index/LinkedIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/type/LongDataType.java
* /h2-2-2-220-sources-2-jar/org/h2/message/Trace.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcSQLTransactionRollbackException.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/CursorPos.java
* /h2-2-2-220-sources-2-jar/org/h2/store/FileLister.java
*
 /h2-2-2-220-sources-2-jar/org/h2/table/PlanItem.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/LongDataCounter.java

* /h2-2-2-220-sources-2-jar/org/h2/util/OsgiDataSourceFactory.java
* /h2-2-2-220-sources-2-jar/org/h2/value/Typed.java
* /h2-2-2-220-sources-2-jar/org/h2/table/VirtualTable.java
* /h2-2-2-220-sources-2-jar/org/h2/index/VirtualConstructedTableIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/condition/ExistsPredicate.java
* /h2-2-2-220-sources-2-jar/org/h2/schema/TriggerObject.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/split/FilePathSplit.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueTinyint.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ExtTypeInfoEnum.java
* /h2-2-2-220-sources-2-jar/org/h2/schema/Domain.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/ListaggArguments.java
* /h2-2-2-220-sources-2-jar/org/h2/tools/CompressTool.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/QueryStatisticsData.java
* /h2-2-2-220-sources-2-jar/org/h2/util/json/JSONNull.java
*
/h2-2-2-220-sources-2-jar/org/h2/value/ValueToObjectConverter2.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/OnExitDatabaseCloser.java
* /h2-2-2-220-sources-2-jar/org/h2/util/TempFileDeleter.java
* /h2-2-2-220-sources-2-jar/org/h2/command/dml/SetClauseList.java
* /h2-2-2-220-sources-2-jar/org/h2/server/web/ConnectionInfo.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/CreateFunctionAlias.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/condition/IsJsonPredicate.java
* /h2-2-2-220-sources-2-jar/org/h2/util/json/JSONObject.java
* /h2-2-2-220-sources-2-jar/org/h2/mode/OnDuplicateKeyValues.java
* /h2-2-2-220-sources-2-jar/org/h2/table/ColumnTemplate.java
* /h2-2-2-220-sources-2-jar/org/h2/result/SimpleRowValue.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/JavaFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/SetComment.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataCount.java
* /h2-2-2-220-sources-2-jar/org/h2/value/TypeInfo.java
*
/h2-2-2-220-sources-2-jar/org/h2/expression/ExpressionVisitor.java
* /h2-2-2-220-sources-2-jar/org/h2/command/dml/Insert.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcSQLFeatureNotSupportedException.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/FileFunction.java
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* /h2-2-2-220-sources-2-jar/org/h2/expression/OperationN.java
* /h2-2-2-220-sources-2-jar/org/h2/value/lob/LobDataFile.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/AlterTableRenameColumn.java
* /h2-2-2-220-sources-2-jar/org/h2/security/XTEA.java
*
 /h2-2-2-220-sources-2-jar/org/h2/mvstore/SFChunk.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/CreateSchema.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/retry/FileRetryOnInterrupt.java
* /h2-2-2-220-sources-2-jar/org/h2/command/dml/ExecuteProcedure.java

* /h2-2-2-220-sources-2-jar/org/h2/mode/FunctionsDB2Derby.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/SysProperties.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/tx/VersionedValueCommitted.java
* /h2-2-2-220-sources-2-jar/org/h2/schema/FunctionAlias.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/CurrentDateTimeValueFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueBigint.java
* /h2-2-2-220-sources-2-jar/org/h2/security/Fog.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/AlterTableAddConstraint.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/FakeFileChannel.java
* /h2-2-2-220-sources-2-jar/org/h2/util/NetworkConnectionInfo.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueChar.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/AlterView.java
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 /h2-2-2-220-sources-2-jar/org/h2/expression/function/MathFunction2.java
* /h2-2-2-220-sources-2-jar/org/h2/tools/Shell.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/analysis/WindowFrameUnits.java
* /h2-2-2-220-sources-2-jar/org/h2/util/json/JSONTextSource.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/StringFunction2.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbcx/JdbcDataSourceFactory.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcClob.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DefineCommand.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataStdVar.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/ExpressionColumn.java
* /h2-2-2-220-sources-2-jar/org/h2/schema/Sequence.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ExtTypeInfoRow.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcPreparedStatement.java
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* /h2-2-2-220-sources-2-jar/org/h2/schema/UserAggregate.java
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 /h2-2-2-220-sources-2-jar/org/h2/expression/IntervalOperation.java
* /h2-2-2-220-sources-2-jar/org/h2/tools/Csv.java
* /h2-2-2-220-sources-2-jar/org/h2/bnf/context/DbSchema.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/StringFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/result/ResultRemote.java
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* /h2-2-2-220-sources-2-jar/org/h2/value/ValueBigDecimalBase.java
* /h2-2-2-220-sources-2-jar/org/h2/value/Value.java
* /h2-2-2-220-sources-2-jar/org/h2/bnf/RuleRepeat.java
* /h2-2-2-220-sources-2-jar/org/h2/value/ValueClob.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataDistinctWithCounts.java
* /h2-2-2-220-sources-2-jar/org/h2/index/DualCursor.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/db/MVInDoubtTransaction.java
* /h2-2-2-220-sources-2-jar/org/h2/tools/Restore.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcSQLSyntaxErrorException.java
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 /h2-2-2-220-sources-2-jar/org/h2/store/fs/split/FileSplit.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/mem/FileMemData.java

* /h2-2-2-220-sources-2-jar/org/h2/value/lob/LobDataFetchOnDemand.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/condition/ConditionInConstantSet.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/WriteBuffer.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/db/MVIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcBlob.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcSQLNonTransientConnectionException.java
* /h2-2-2-220-sources-2-jar/org/h2/mode/FunctionsMSSQLServer.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/table/ArrayTableFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/Page.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/MVMap.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataAvg.java
* /h2-2-2-220-sources-2-jar/org/h2/tools/RunScript.java
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* /h2-2-2-220-sources-2-jar/org/h2/store/CountingReaderInputStream.java
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* /h2-2-2-220-sources-2-jar/org/h2/value/ValueReal.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/CommandWithColumns.java
* /h2-2-2-220-sources-2-jar/org/h2/table/Table.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/IsolationLevel.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DropTable.java
* /h2-2-2-220-sources-2-jar/org/h2/mode/Regclass.java
* /h2-2-2-220-sources-2-jar/org/h2/util/MemoryUnmapper.java
* /h2-2-2-220-sources-2-jar/org/h2/api/JavaObjectSerializer.java
* /h2-2-2-220-sources-2-jar/org/h2/command/query/AllColumnsForPlan.java
* /h2-2-2-220-sources-2-jar/org/h2/table/FunctionTable.java
* /h2-2-2-220-sources-2-jar/org/h2/util/geometry/EWKBUtils.java
* /h2-2-2-220-sources-2-jar/org/h2/tools/Server.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/rec/FileRec.java
* /h2-2-2-220-sources-2-jar/org/h2/command/dml/ScriptCommand.java
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/h2-2-2-220-sources-2-jar/org/h2/table/IndexHints.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/SchemaCommand.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/type/ByteArrayDataType.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/tx/Record.java
* /h2-2-2-220-sources-2-jar/org/h2/store/RecoverTester.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/SimpleCase.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/condition/CompareLike.java
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* /h2-2-2-220-sources-2-jar/org/h2/result/MergedResult.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/encrypt/FilePathEncrypt.java
* /h2-2-2-220-sources-2-jar/org/h2/result/ResultColumn.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/SearchedCase.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/Mode.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/mem/FilePathMem.java
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/h2-2-2-220-sources-2-jar/org/h2/value/ValueTimeTimeZone.java
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* /h2-2-2-220-sources-2-jar/org/h2/engine/Setting.java
* /h2-2-2-220-sources-2-jar/org/h2/table/TableSynonym.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/meta/DatabaseMeta.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/ExpressionWithVariableParameters.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataEnvelope.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/tx/TransactionStore.java
* /h2-2-2-220-sources-2-jar/org/h2/table/MetaTable.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/analysis/DataAnalysisOperation.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/DomainValueExpression.java
* /h2-2-2-220-sources-2-jar/org/h2/index/IndexType.java
* /h2-2-2-220-sources-2-jar/org/h2/constraint/Constraint.java
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/h2-2-2-220-sources-2-jar/org/h2/command/ddl/DropAggregate.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/RootReference.java
* /h2-2-2-220-sources-2-jar/org/h2/index/SpatialIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/ConnectionInfo.java
* /h2-2-2-220-sources-2-jar/org/h2/command/query/Query.java
* /h2-2-2-220-sources-2-jar/org/h2/table/RangeTable.java
* /h2-2-2-220-sources-2-jar/org/h2/util/json/JSONStringTarget.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/CreateIndex.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcSQLException.java
* /h2-2-2-220-sources-2-jar/org/h2/table/TableLink.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/Operation2.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/AlterTableAlterColumn.java
* /h2-2-2-220-sources-2-jar/org/h2/mvstore/db/MVPlainTempResult.java
* /h2-2-2-220-sources-2-jar/org/h2/server/web/WebSession.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/RefreshMaterializedView.java
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/h2-2-2-220-sources-2-jar/org/h2/bnf/RuleList.java
* /h2-2-2-220-sources-2-jar/org/h2/command/CommandRemote.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/DBObjectFunction.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/Percentile.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DropDomain.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcStatement.java
* /h2-2-2-220-sources-2-jar/org/h2/command/dml/Explain.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataCorr.java
* /h2-2-2-220-sources-2-jar/org/h2/jdbc/JdbcException.java
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* /h2-2-2-220-sources-2-jar/org/h2/mode/FunctionInfo.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/AlterDomainDropConstraint.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/aggregate/AggregateDataCovar.java
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/h2-2-2-220-sources-2-jar/org/h2/value/CaseInsensitiveConcurrentMap.java
* /h2-2-2-220-sources-2-jar/org/h2/bnf/context/DbContents.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DropFunctionAlias.java
* /h2-2-2-220-sources-2-jar/org/h2/command/ddl/DeallocateProcedure.java
* /h2-2-2-220-sources-2-jar/org/h2/command/dml/ScriptBase.java
* /h2-2-2-220-sources-2-jar/org/h2/expression/function/Function1_2.java
* /h2-2-2-220-sources-2-jar/org/h2/index/IndexCondition.java
* /h2-2-2-220-sources-2-jar/org/h2/store/fs/mem/FileMem.java
* /h2-2-2-220-sources-2-jar/org/h2/engine/DelayedDatabaseCloser.java
* /h2-2-2-220-sources-2-jar/org/h2/security/AES.java
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/*
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* Initial Developer: Jason Brittain (jason.brittain at gmail.com)
*/

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* Initial Developer: H2 Group
*
* The variable size number format code is a port from SQLite,
* but stored in reverse order (least significant bits in the first byte).
*/

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1.366 pam 1.5.3-r7

1.366.1 Available under license :

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<html><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8"><title>6.36. pam_tty_audit - enable/disable tty auditing</title><meta name="generator" content="DocBook XSL Stylesheets V1.79.2"><link rel="home" href="Linux-PAM_SAG.html" title="The Linux-PAM System Administrators' Guide"><link rel="up" href="sag-module-reference.html" title="Chapter 6. A reference guide for available modules"><link rel="prev" href="sag-pam_timestamp.html" title="6.35. pam_timestamp - authenticate using cached successful authentication attempts"><link rel="next" href="sag-pam_umask.html" title="6.37. pam_umask - set the file mode creation mask"></head><body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF"> <table width="100%" summary="Navigation header"><tr><th colspan="3"

align="center">6.36. pam_tty_audit - enable/disable tty auditing</th></tr><tr><td width="20%" align="left">Prev </td><th width="60%" align="center">Chapter 6. A reference guide for available modules</th><td width="20%" align="right"> Next</td></tr></table><hr> <h2 class="title" style="clear: both">6.36. pam_tty_audit - enable/disable tty auditing</h2> <code class="command">pam_tty_audit.so</code> [disable=<code>patterns</code>] [enable=<code>patterns</code>] <h3 class="title">6.36.1. DESCRIPTION</h3> The pam_tty_audit PAM module is used to enable or disable TTY auditing. By default, the kernel does not audit input on any TTY. <h3 class="title">6.36.2. OPTIONS</h3> <dl class="variablelist"><dt> disable=patterns </dt><dd> For each user matching <code class="option"><code>patterns</code></code>, disable TTY auditing. This overrides any previous <code class="option">enable</code> option matching the same user name on the command line. See NOTES for further description of <code class="option"><code>patterns</code></code>. </dd><dt> enable=patterns </dt><dd> For each user matching <code class="option"><code>patterns</code></code>, enable TTY auditing. This overrides any previous <code class="option">disable</code> option matching the same user name on the command line. See NOTES for further description of <code class="option"><code>patterns</code></code>. </dd><dt> open_only </dt><dd> Set the TTY audit flag when opening the session, but do not restore it when closing the session. Using this option is necessary for some services that don't <code class="function">fork()</code> to run the authenticated session, such as sudo. </dd><dt> log_passwd </dt><dd> Log keystrokes when ECHO mode is off but ICANON mode is active. This is the mode in which the tty is placed during password entry. By default, passwords are not logged. This option may not be available on older kernels (3.9?). </dd></dl> <h3 class="title"><a

name="sag-pam_tty_audit-types">6.36.3. MODULE TYPES PROVIDED</h3>
Only the session type is supported.
<h3 class="title">6.36.4. RETURN VALUES</h3> <dl class="variablelist"><dt>PAM_SESSION_ERR</dt><dd>
Error reading or modifying the TTY audit flag. See the system log
for more details.
</dd><dt>PAM_SUCCESS</dt><dd>
Success.
</dd></dl> <h3 class="title">6.36.5. NOTES</h3>
When TTY auditing is enabled, it is inherited by all processes started by
that user. In particular, daemons restarted by a user will still have
TTY auditing enabled, and audit TTY input even by other users unless
auditing for these users is explicitly disabled. Therefore, it is
recommended to use <code class="option">disable=*</code> as the first option for
most daemons using PAM.

To view the data that was logged by the kernel to audit use
the command aureport --tty.

The <code class="option"><code>patterns</code></code> are comma separated
lists of glob patterns or ranges of uids. A range is specified as
<code>min_uid</code>:<code>max_uid</code> where
one of these values can be empty. If <code>min_uid</code> is
empty only user with the uid <code>max_uid</code> will be
matched. If <code>max_uid</code> is empty users with the uid
greater than or equal to <code>min_uid</code> will be
matched.

Please note that passwords in some circumstances may be logged by TTY auditing
even if the <code class="option">log_passwd</code> is not used. For example, all input to
an ssh session will be logged - even if there is a password being typed into
some software running at the remote host because only the local TTY state
affects the local TTY auditing.
<h3 class="title">6.36.6. EXAMPLES</h3>
Audit all administrative actions.
<pre class="programlisting">
session required pam_tty_audit.so disable=* enable=root
</pre>
<h3 class="title">6.36.7. AUTHOR</h3>

pam_tty_audit was written by Miloslav Trma
<mitr@redhat.com>.
The log_passwd option was added by Richard Guy Briggs
<rgb@redhat.com>.
<hr><table width="100%" summary="Navigation footer"><tr><td width="40%" align="left">Prev </td><td width="20%" align="center">Up</td><td width="40%" align="right"> Next</td></tr><tr><td width="40%" align="left" valign="top">6.35. pam_timestamp - authenticate using cached successful authentication attempts </td><td width="20%" align="center">Home</td><td width="40%" align="right" valign="top"> 6.37. pam_umask - set the file mode creation mask</td></tr></table> </body></html>

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</pre> <hr><table width="100%" summary="Navigation footer"><tr><td
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align="center"> </td><td width="40%" align="right"> </td></tr><tr><td width="40%" align="left"
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valign="top"> </td></tr></table> </body></html>

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The Linux-PAM System Administrators' Guide

Andrew G. Morgan

<morgan@kernel.org>

Thorsten Kukuk

<kukuk@thkukuk.de>

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Abstract

This manual documents what a system-administrator needs to know about the Linux-PAM library. It covers the correct syntax of the PAM configuration file and discusses strategies for maintaining a secure system.

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Chapter 1. Introduction

Linux-PAM (Pluggable Authentication Modules for Linux) is a suite of shared libraries that enable the local system administrator to choose how applications

authenticate users.

In other words, without (rewriting and) recompiling a PAM-aware application, it is possible to switch between the authentication mechanism(s) it uses. Indeed, one may entirely upgrade the local authentication system without touching the applications themselves.

Historically an application that has required a given user to be authenticated, has had to be compiled to use a specific authentication mechanism. For example, in the case of traditional UN*X systems, the
identity of the user is verified
by the user entering a correct password. This password, after being prefixed by a two character ``salt'', is encrypted (with crypt(3)). The user is then authenticated if this encrypted password is identical to the second field of the user's entry in the system password database (the /etc/passwd file). On such systems, most if not all forms of privileges are granted based on this single authentication scheme. Privilege comes in the form of a personal user-identifier (UID) and membership of various groups. Services and applications are available based on the personal and group identity of the user. Traditionally, group membership has been assigned based on entries in the /etc/group file.

It is the purpose of the Linux-PAM project to separate the development of privilege granting software from the development of secure and appropriate authentication schemes. This is accomplished by providing a library of functions that an application may use to request
that a user be authenticated.
This PAM library is configured locally with a system file, /etc/pam.conf (or a series of configuration files located in /etc/pam.d/) to authenticate a user request via the locally available authentication modules. The modules themselves will usually be located in the directory /lib/security or /lib64/security and take the form of dynamically loadable object files (see dlopen(3)).

Chapter 2. Some comments on the text

Before proceeding to read the rest of this document, it should be noted that the text assumes that certain files are placed in certain directories. Where they have been specified, the conventions we adopt here for locating these files are those of the relevant RFC (RFC-86.0, see bibliography''). If you are using a distribution of Linux (or some other operating system) that supports PAM but chooses to distribute these files in a different way you should be careful when copying examples directly from the text.

As an example of the above, where
it is explicit, the text assumes that PAM
loadable object files (the modules) are to be located in the following directory: /lib/security/ or /lib64/security depending on the architecture.

This is generally the location that seems to be compatible with the Filesystem Hierarchy Standard (FHS). On Solaris, which has its own licensed version of PAM, and some other implementations of UN*X, these files can be found in /usr/lib/security. Please be careful to perform the necessary transcription when using the examples from the text.

Chapter 3. Overview

For the uninitiated, we begin by considering an example. We take an application that grants some service to users; login is one such program. Login does two things, it first establishes that the requesting user is whom they claim to be and second provides them with the requested service: in the case of login the service is a command shell (bash, tcsh, zsh, etc.) running with the identity of the user.

Traditionally, the former step is achieved by the login application prompting the user for a password and then verifying that it agrees with that located on the system; hence verifying that as far as the system is concerned the user is who they claim to be. This is the task that is delegated to Linux-PAM.

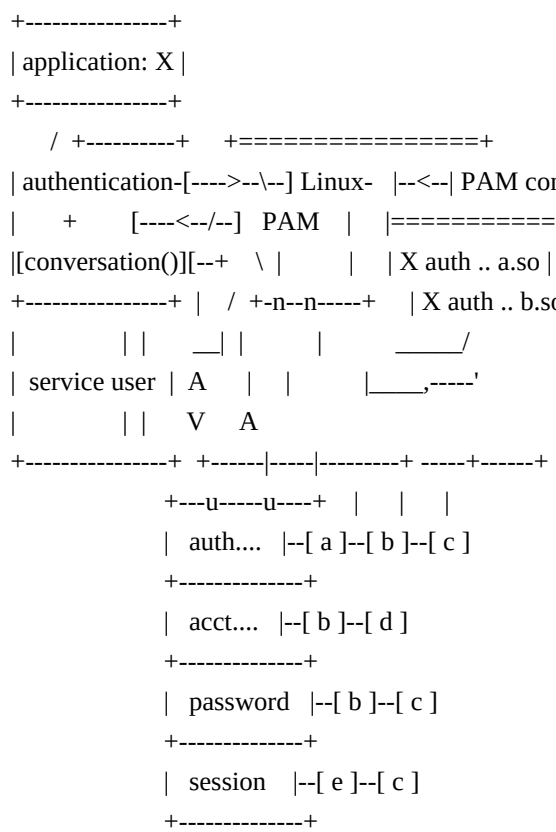
From the perspective of the application programmer (in this case the person that wrote the login application), Linux-PAM takes care of this authentication task -- verifying the identity of the user.

The flexibility of Linux-PAM is that you, the system administrator, have the freedom to stipulate which authentication scheme is to be used. You have the freedom to set the scheme for any/all PAM-aware applications on your Linux system. That is, you can authenticate from anything as naive as simple trust (pam_permit) to something as paranoid as a combination of a retinal scan, a voice print and a one-time password!

To illustrate the flexibility you face, consider the following situation: a system administrator (parent) wishes to improve the mathematical ability of her users (children). She can configure their favorite ``Shoot 'em up game'' (PAM-aware of course) to authenticate them with a request for the product of a couple of random numbers less than 12. It is clear that if the game is any good they will soon learn their multiplication tables. As they mature, the authentication can be upgraded to include (long) division!

Linux-PAM deals with four separate types of (management) task. These are: authentication management; account management; session management; and password management. The association of the preferred management scheme with the behavior of an application is made with entries in the relevant Linux-PAM configuration file. The management functions are performed by modules specified in the configuration file. The syntax for this file is discussed in the section below.

Here is a figure that describes the overall organization of Linux-PAM:



By
way of explanation, the left of the figure represents the application; application X. Such an application interfaces with the Linux-PAM library and knows none of the specifics of its configured authentication method. The Linux-PAM library (in the center) consults the contents of the PAM configuration file and loads the modules that are appropriate for application-X. These modules fall into one of four management groups (lower-center) and are stacked in the order they appear in the configuration file. These modules, when called by Linux-PAM, perform the various authentication tasks for the application. Textual information, required from/or offered to the user, can be exchanged through the use of the application-supplied conversation function.

If a program is going to use PAM, then it has to have PAM functions explicitly coded into the program. If you have access to the source code you can add the appropriate PAM functions. If you do not have access to the source code, and the
binary does not have the PAM functions included, then it is not possible to use PAM.

Chapter 4. The Linux-PAM configuration file

When a PAM aware privilege granting application is started, it activates its attachment to the PAM-API. This activation performs a number of tasks, the most important being the reading of the configuration file(s): /etc/pam.conf. Alternatively and preferably, the configuration can be set by individual configuration files located in a pam.d directory. The presence of this directory will cause Linux-PAM to ignore /etc/pam.conf.

These files list the PAMs that will do the authentication tasks required by this service, and the appropriate behavior of the PAM-API in the event that individual PAMs fail.

4.1. Configuration file syntax

The syntax of the /etc/pam.conf configuration file is as follows. The file is made up of a list of rules, each rule is typically placed on a single line, but may be extended with an escaped end of line: `\<LF>'. Comments are preceded with
`#' marks and extend to the next end of line.

The format of each rule is a space separated collection of tokens, the first three being case-insensitive:

service type control module-path module-arguments

The syntax of files contained in the /etc/pam.d/ directory, are identical except for the absence of any service field. In this case, the service is the name of the file in the /etc/pam.d/ directory. This filename must be in lower case.

An important feature of PAM, is that a number of rules may be stacked to combine the services of a number of PAMs for a given authentication task.

The service is typically the familiar name of the corresponding application: login and su are good examples. The service-name, other, is reserved for giving default rules. Only lines that mention the current service (or in the absence of such, the other entries) will be associated with the given service-application.

The type is the management group that the rule corresponds to. It is used to specify
which of the management groups the subsequent module is to be associated with. Valid entries are:

account

this module type performs non-authentication based account management. It is typically used to restrict/permit access to a service based on the time of day, currently available system resources (maximum number of users) or

perhaps the location of the applicant user -- 'root' login only on the console.

auth

this module type provides two aspects of authenticating the user. Firstly, it establishes that the user is who they claim to be, by instructing the application to prompt the user for a password or other means of identification. Secondly, the module can grant group membership or other privileges through its credential granting properties.

password

this module type is required for updating the authentication token associated with the user. Typically, there is one module for each 'challenge/response' based authentication (auth) type.

session

this module type is associated with doing things that need to be done for the user before/after they can be given service. Such things include the logging of information concerning the opening/closing of some data exchange with a user, mounting directories, etc.

If the type value from the list above is prepended with a - character the PAM library will not log to the system log if it is not possible to load the module because it is missing in the system. This can be useful especially for modules which are not always installed on the system and are not required for correct authentication and authorization of the login session.

The third field, control, indicates the behavior of the PAM-API should the module fail to succeed in its authentication task. There are two types of syntax for this control field: the simple one has a single simple keyword; the more complicated one involves a square-bracketed selection of value=action pairs.

For the simple (historical) syntax valid control values are:

required

failure of such a PAM will ultimately lead to the PAM-API returning failure but only after the remaining stacked modules (for this service and type) have been invoked.

requisite

like required, however, in the case that such a module returns a failure, control is directly returned to the application or to the superior PAM stack. The return value is that associated with the first required or requisite module to fail. Note, this flag can be used to protect against the possibility of a user getting the opportunity to enter a password over an unsafe medium. It is conceivable that such behavior might inform an attacker of valid accounts on a system. This possibility should be weighed against the not insignificant concerns of exposing a sensitive password in a hostile environment.

sufficient

if such a module succeeds and no prior required module has failed the PAM framework
returns success to the application or to the superior PAM stack immediately without calling any further modules in the stack. A failure of a sufficient module is ignored and processing of the PAM module stack continues unaffected.

optional

the success or failure of this module is only important if it is the only module in the stack associated with this service+type.

include

include all lines of given type from the configuration file specified as an argument to this control.

substack

include all lines of given type from the configuration file specified as an argument to this control. This differs from include in that evaluation of the done and die actions in a substack does not cause skipping the rest of the complete module stack, but only of the substack. Jumps in a substack also can not make evaluation jump out of it, and the whole substack is counted as one module when the jump is done in a parent stack. The reset action will
reset the state of a module stack to the state it was in as of beginning of the substack evaluation.

For the more complicated syntax valid control values have the following form:

[value1=action1 value2=action2 ...]

Where valueN corresponds to the return code from the function invoked in the module for which the line is defined. It is selected from one of these: success

, open_err, symbol_err, service_err, system_err, buf_err, perm_denied, auth_err
, cred_insufficient, authinfo_unavail, user_unknown, maxtries, new_authtok_reqd
, acct_expired, session_err, cred_unavail, cred_expired, cred_err,
no_module_data, conv_err, authtok_err, authtok_recover_err, authtok_lock_busy,
authtok_disable_aging, try_again, ignore, abort, authtok_expired,
module_unknown, bad_item, conv_again, incomplete, and default.

The last of these, default, implies 'all valueN's not mentioned explicitly.
Note, the full list of PAM errors is available in /usr/include/security/
_pam_types.h. The actionN
can take one of the following forms:

ignore

when used with a stack of modules, the module's return status will not
contribute to the return code the application obtains.

bad

this action indicates that the return code should be thought of as
indicative of the module failing. If this module is the first in the stack
to fail, its status value will be used for that of the whole stack. This is
the default action for all return codes.

die

equivalent to bad with the side effect of terminating the module stack and
PAM immediately returning to the application.

ok

this tells PAM that the administrator thinks this return code should
contribute directly to the return code of the full stack of modules. In
other words, if the former state of the stack would lead to a return of
PAM_SUCCESS, the module's return code will override this value. Note, if
the former state of the stack holds some value that is indicative of a
modules failure,
this 'ok' value will not be used to override that value.

done

equivalent to ok with the side effect of terminating the module stack and
PAM immediately returning to the application unless there was a non-ignored
module failure before.

N (an unsigned integer)

jump over the next N modules in the stack. Note that N equal to 0 is not

allowed, it would be treated as ignore in such case. The side effect depends on the PAM function call: for pam_authenticate, pam_acct_mgmt, pam_chauthtok, and pam_open_session it is ignore; for pam_setcred and pam_close_session it is one of ignore, ok, or bad depending on the module's return value.

reset

clear all memory of the state of the module stack and start again with the next stacked module.

If a return code's action is not specifically defined via a valueN token, and the default value is not specified, that return code's action defaults to bad.

Each of the four keywords: required; requisite; sufficient; and optional, have an equivalent expression in terms of the [...] syntax. They are as follows:

required

[success=ok new_authtok_reqd=ok ignore=ignore default=bad]

requisite

[success=ok new_authtok_reqd=ok ignore=ignore default=die]

sufficient

[success=done new_authtok_reqd=done default=ignore]

optional

[success=ok new_authtok_reqd=ok default=ignore]

module-path is either the full filename of the PAM to be used by the application (it begins with a '/'), or a relative pathname from the default module location: /lib/security/ or /lib64/security/, depending on the architecture.

module-arguments are a space separated list of tokens that can be used to modify the specific behavior of the given PAM. Such arguments will be documented for each individual module. Note, if you wish to include spaces in an argument, you should surround that argument with square brackets.

```
  squid auth required pam_mysql.so user=passwd_query passwd=mada \
      db=eminence [query=select
user_name from internet_service \
      where user_name='%u' and password=PASSWORD('%p') and \
```

service='web_proxy']

When using this convention, you can include `[' characters inside the string, and if you wish to include a `]' character inside the string that will survive the argument parsing, you should use `\]'. In other words:

[..[..\]..] --> ..[..]..

Any line in (one of) the configuration file(s), that is not formatted correctly, will generally tend (erring on the side of caution) to make the authentication process fail. A corresponding error is written to the system log files with a call to syslog(3).

4.2. Directory based configuration

More flexible than the single configuration file is it to configure libpam via the contents of pam.d directories. In this case the directories are filled with files each of which has a filename equal to a service-name (in lower-case): it is the personal configuration file for the named service.

Vendor-supplied
PAM configuration files might be installed in the system directory /usr/lib/pam.d/ or a configurable vendor specific directory instead of the machine configuration directory /etc/pam.d/. If no machine configuration file is found, the vendor-supplied file is used. All files in /etc/pam.d/ override files with the same name in other directories.

The syntax of each file in pam.d is similar to that of the /etc/pam.conf file and is made up of lines of the following form:

type control module-path module-arguments

The only difference being that the service-name is not present. The service-name is of course the name of the given configuration file. For example, /etc/pam.d/login contains the configuration for the login service.

4.3. Example configuration file entries

In this section, we give some examples of entries that can be present in the Linux-PAM configuration file. As a first attempt at configuring your system you could do worse than to implement these.

If a system is to be
considered secure, it had better have a reasonably secure
'other entry. The following is a paranoid setting (which is not a bad place to

start!):

```
#
# default; deny access
#
other   auth     required       pam_deny.so
other   account  required       pam_deny.so
other   password required       pam_deny.so
other   session  required       pam_deny.so
```

Whilst fundamentally a secure default, this is not very sympathetic to a misconfigured system. For example, such a system is vulnerable to locking everyone out should the rest of the file become badly written.

The module pam_deny (documented in a later section) is not very sophisticated. For example, it logs no information when it is invoked so unless the users of a system contact the administrator when failing to execute a service application, the administrator may go for a long while in ignorance of the fact that his system is misconfigured.

The addition of the following line before those in the above example would provide a suitable warning
to the administrator.

```
#
# default; wake up! This application is not configured
#
other   auth     required       pam_warn.so
other   password required       pam_warn.so
```

Having two 'other auth' lines is an example of stacking.

On a system that uses the /etc/pam.d/ configuration, the corresponding default setup would be achieved with the following file:

```
#
# default configuration: /etc/pam.d/other
#
auth     required       pam_warn.so
auth     required       pam_deny.so
account  required       pam_deny.so
password required       pam_warn.so
password required       pam_deny.so
session  required       pam_deny.so
```

This is the only explicit example we give for an /etc/pam.d/ file. In general, it should be clear how to transpose the remaining examples to this configuration scheme.

On a less sensitive computer, one on which the system administrator wishes to remain ignorant of much of the power of Linux-PAM, the following selection of lines (in /etc/pam.d/other) is likely to mimic
the historically familiar Linux
setup.

```
#
# default; standard UN*X access
#
auth     required       pam_unix.so
account  required       pam_unix.so
password required       pam_unix.so
session  required       pam_unix.so
```

In general this will provide a starting place for most applications.

Chapter 5. Security issues

5.1. If something goes wrong

Linux-PAM has the potential to seriously change the security of your system. You can choose to have no security or absolute security (no access permitted). In general, Linux-PAM errs towards the latter. Any number of configuration errors can disable access to your system partially, or completely.

The most dramatic problem that is likely to be encountered when configuring Linux-PAM is that of deleting the configuration file(s): /etc/pam.d/* and/or /etc/pam.conf. This will lock you out of your own system!

To recover, your best bet is to restore the system from a backup or boot the system into a rescue system and correct things from there.

5.2.
Avoid having a weak `other' configuration

It is not a good thing to have a weak default (other) entry. This service is the default configuration for all PAM aware applications and if it is weak, your system is likely to be vulnerable to attack.

Here is a sample "other" configuration file. The pam_deny module will deny access and the pam_warn module will send a syslog message to auth.notice:

```
#
```

```
# The PAM configuration file for the `other' service
#
auth      required   pam_deny.so
auth      required   pam_warn.so
account   required   pam_deny.so
account   required   pam_warn.so
password  required   pam_deny.so
password  required   pam_warn.so
session   required   pam_deny.so
session   required   pam_warn.so
```

Chapter 6. A reference guide for available modules

Here, we collect together the descriptions of the various modules coming with Linux-PAM.

6.1. pam_access - logdaemon style login access control

pam_access.so [debug] [nodefgroup] [noaudit] [accessfile=file] [fieldsep=sep] [listsep=sep]

6.1.1. DESCRIPTION

The pam_access PAM module is mainly for access management. It provides logdaemon style login access control based on login names, host or domain names, internet addresses or network numbers, or on terminal line names, X $DISPLAY values, or PAM service names in case of non-networked logins.

By default rules for access management are taken from config file /etc/security/access.conf if you don't specify another file. Then individual *.conf files from the /etc/security/access.d/ directory are read. The files are parsed one after another in the order of the system locale. The effect of the individual files is the same as if all the files were concatenated together in the order of parsing. This means that once a pattern is matched in some file no further files are parsed. If a config file is explicitly specified with the accessfile option the files in the above directory are not parsed.

By default rules for access management are taken from config file /etc/security/access.conf or, if that one is not present, the file %vendordir%/security/access.conf. These settings can be overruled by setting in a config file explicitly specified with the accessfile option. Then individual *.conf files from the /etc/security/access.d/ and %vendordir%/security/access.d directories are read. If /etc/security/access.d/@filename@.conf exists, then %vendordir%/security/access.d/@filename@.conf will not be used. All access.d/*.conf files are sorted by their @filename@.conf in lexicographic order regardless of which

of the directories they reside in. The effect of the individual files is the same as if all the files were concatenated together in the order of parsing. This means that once a pattern is matched in some file no further files are parsed. If a config file is explicitly specified with the accessfile option the files in the above directories are not parsed.

If Linux PAM is compiled with audit support the module will report when it denies
access based on origin (host, tty, etc.).

6.1.2. DESCRIPTION

The /etc/security/access.conf file specifies (user/group, host), (user/group, network/netmask), (user/group, tty), (user/group, X-$DISPLAY-value), or (user/group, pam-service-name) combinations for which a login will be either accepted or refused.

When someone logs in, the file access.conf is scanned for the first entry that matches the (user/group, host) or (user/group, network/netmask) combination, or, in case of non-networked logins, the first entry that matches the (user/group, tty) combination, or in the case of non-networked logins without a tty, the first entry that matches the (user/group, X-$DISPLAY-value) or (user/group, pam-service-name/) combination. The permissions field of that table entry determines whether the login will be accepted or refused.

Each line of the login access control table has three fields separated by a ":" character (colon):

permission:users/groups:origins

The first field, the permission
field, can be either a "+" character (plus) for
access granted or a "-" character (minus) for access denied.

The second field, the users/group field, should be a list of one or more login names, group names, or ALL (which always matches). To differentiate user entries from group entries, group entries should be written with brackets, e.g. (group).

The third field, the origins field, should be a list of one or more tty names (for non-networked logins), X $DISPLAY values or PAM service names (for non-networked logins without a tty), host names, domain names (begin with "."), host addresses, internet network numbers (end with "."), internet network addresses with network mask (where network mask can be a decimal number or an internet address also), ALL (which always matches) or LOCAL. The LOCAL keyword matches if and only if pam_get_item(3), when called with an item_type of PAM_RHOST, returns NULL or an empty string (and therefore the origins field is compared against the return

value of pam_get_item(3) called with an item_type
of PAM_TTY or, absent that, PAM_SERVICE).

If supported by the system you can use @netgroupname in host or user patterns. The @@netgroupname syntax is supported in the user pattern only and it makes the local system hostname to be passed to the netgroup match call in addition to the user name. This might not work correctly on some libc implementations causing the match to always fail.

The EXCEPT operator makes it possible to write very compact rules.

If the nodefgroup is not set, the group file is searched when a name does not match that of the logged-in user. Only groups are matched in which users are explicitly listed. However the PAM module does not look at the primary group id of a user.

The "#" character at start of line (no space at front) can be used to mark this line as a comment line.

6.1.3. OPTIONS

accessfile=/path/to/access.conf

Indicate an alternative access.conf style configuration file to override the default.
This can be useful when different services need different access lists.

debug

A lot of debug information is printed with syslog(3).

noaudit

Do not report logins from disallowed hosts and ttys to the audit subsystem.

fieldsep=separators

This option modifies the field separator character that pam_access will recognize when parsing the access configuration file. For example: fieldsep =| will cause the default `:' character to be treated as part of a field value and `|' becomes the field separator. Doing this may be useful in conjunction with a system that wants to use pam_access with X based applications, since the PAM_TTY item is likely to be of the form "hostname:0" which includes a `:' character in its value. But you should not need this.

listsep=separators

This option modifies the list separator character that pam_access will recognize when parsing the access configuration file. For example: listsep =, will cause the
default ` ' (space) and `\t' (tab) characters to be
treated as part of a list element value and `,' becomes the only list element separator. Doing this may be useful on a system with group information obtained from a Windows domain, where the default built-in groups "Domain Users", "Domain Admins" contain a space.

nodefgroup

User tokens which are not enclosed in parentheses will not be matched against the group database. The backwards compatible default is to try the group database match even for tokens not enclosed in parentheses.

6.1.4. MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

6.1.5. RETURN VALUES

PAM_SUCCESS

Access was granted.

PAM_PERM_DENIED

Access was not granted.

PAM_IGNORE

pam_setcred was called which does nothing.

PAM_ABORT

Not all relevant data or options could be gotten.

PAM_USER_UNKNOWN

The user is not known to the system.

6.1.6. FILES

/etc/security/access.conf

Default configuration file

%vendordir%/security/access.conf

Default configuration file if /etc/security/access.conf does not exist.

6.1.7. EXAMPLES

These are some example lines which might be specified in /etc/security/access.conf.

User root should be allowed to get access via cron, X11 terminal :0, tty1, ..., tty5, tty6.

+:root:crond :0 tty1 tty2 tty3 tty4 tty5 tty6

User root should be allowed to get access from hosts which own the IPv4 addresses. This does not mean that the connection have to be a IPv4 one, a IPv6 connection from a host with one of this IPv4 addresses does work, too.

+:root:192.168.200.1 192.168.200.4 192.168.200.9

+:root:127.0.0.1

User root should get access from network 192.168.201. where the term will be evaluated by string matching. But it might be better to use network/netmask instead. The same meaning of 192.168.201. is 192.168.201.0/24 or 192.168.201.0/255.255.255.0.

+:root:192.168.201.

User root should be able to have access from hosts
foo1.bar.org and
foo2.bar.org (uses string matching also).

+:root:foo1.bar.org foo2.bar.org

User root should be able to have access from domain foo.bar.org (uses string matching also).

+:root:.foo.bar.org

User root should be denied to get access from all other sources.

-:root:ALL

User foo and members of netgroup admins should be allowed to get access from all sources. This will only work if netgroup service is available.

+:@admins foo:ALL

User john and foo should get access from IPv6 host address.

+:john foo:2001:db8:0:101::1

User john should get access from IPv6 net/mask.

+:john:2001:db8:0:101::/64

Members of group wheel should be allowed to get access from all sources.

+:(wheel):ALL

Disallow console logins to all but the shutdown, sync and all other accounts,
which are a member of the wheel group.

-:ALL EXCEPT (wheel) shutdown sync:LOCAL

All other users should be denied to get access from all sources.

-:ALL:ALL

6.1.8. AUTHORS

The logdaemon style login access control
scheme was designed and implemented by
Wietse Venema. The pam_access PAM module was developed by Alexei Nogin
<alexei@nogin.dnttm.ru>. The IPv6 support and the network(address) / netmask
feature was developed and provided by Mike Becher
<mike.becher@lrz-muenchen.de>.

6.2. pam_debug - debug the PAM stack

pam_debug.so [auth=value] [cred=value] [acct=value] [prechauthtok=value
] [chauthtok=value] [auth=value] [open_session=value] [close_session=
value]

6.2.1. DESCRIPTION

The pam_debug PAM module is intended as a debugging aide for determining how
the PAM stack is operating. This module returns what its module arguments tell
it to return.

6.2.2. OPTIONS

auth=value

The pam_sm_authenticate(3) function will return value.

cred=value

The pam_sm_setcred(3) function will return value.

acct=value

The pam_sm_acct_mgmt(3) function will return value.

prechauthtok=value

The pam_sm_chauthtok(3) function will return value if the PAM_PRELIM_CHECK flag
is set.

chauthtok=value

The pam_sm_chauthtok(3) function will return value if the PAM_PRELIM_CHECK flag is not set.

open_session=value

The pam_sm_open_session(3) function will return value.

close_session=value

The pam_sm_close_session(3) function will return value.

Where value can be one of: success, open_err, symbol_err, service_err, system_err, buf_err, perm_denied, auth_err, cred_insufficient, authinfo_unavail, user_unknown, maxtries, new_authtok_reqd, acct_expired, session_err, cred_unavail, cred_expired, cred_err, no_module_data, conv_err, authtok_err, authtok_recover_err, authtok_lock_busy, authtok_disable_aging, try_again, ignore, abort, authtok_expired, module_unknown, bad_item, conv_again, incomplete.

6.2.3. MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

6.2.4. RETURN VALUES

PAM_SUCCESS

Default return code if no other value was specified, else specified return value.

6.2.5. EXAMPLES

```
auth    requisite
      pam_permit.so
auth    [success=2 default=ok]  pam_debug.so auth=perm_denied cred=success
auth    [default=reset]         pam_debug.so auth=success cred=perm_denied
auth    [success=done default=die] pam_debug.so
auth    optional        pam_debug.so auth=perm_denied cred=perm_denied
auth    sufficient      pam_debug.so auth=success cred=success
```

6.2.6. AUTHOR

pam_debug was written by Andrew G. Morgan <morgan@kernel.org>.

6.3. pam_deny - locking-out PAM module

pam_deny.so

6.3.1. DESCRIPTION

This module can be used to deny access. It always indicates a failure to the application through the PAM framework. It might be suitable for using for default (the OTHER) entries.

6.3.2. OPTIONS

This module does not recognise any options.

6.3.3. MODULE TYPES PROVIDED

All module types (account, auth, password and session) are provided.

6.3.4. RETURN VALUES

PAM_AUTH_ERR

This is returned by the account and auth services.

PAM_CRED_ERR

This is returned by the setcred function.

PAM_AUTHTOK_ERR

This is returned by the password service.

PAM_SESSION_ERR

This is returned by the session service.

6.3.5. EXAMPLES

```
#%PAM-1.0
#
# If we don't have config entries for a service, the
# OTHER entries are used. To be secure, warn and deny
# access to everything.
other auth     required       pam_warn.so
other auth     required       pam_deny.so
other account  required       pam_warn.so
other account  required       pam_deny.so
other password required       pam_warn.so
other password required       pam_deny.so
other session  required       pam_warn.so
other session  required       pam_deny.so
```

6.3.6. AUTHOR

pam_deny was written by Andrew G. Morgan <morgan@kernel.org>

6.4. pam_echo - print text messages

pam_echo.so [file=/path/message]

6.4.1. DESCRIPTION

The pam_echo PAM module is for printing text messages to inform user about special things. Sequences starting with the % character are interpreted in the following way:

%H

The name of the remote host (PAM_RHOST).

%h

The name of the local host.

%s

The service name (PAM_SERVICE).

%t

The name of the controlling terminal (PAM_TTY).

%U

The remote user name (PAM_RUSER).

%u

The local user name (PAM_USER).

All other sequences beginning with % expands to the characters following the % character.

6.4.2. OPTIONS

file=/path/message

The content of the file /path/message will be printed with the PAM conversion function as PAM_TEXT_INFO.

6.4.3. MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

6.4.4. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

Message was successful printed.

PAM_IGNORE

PAM_SILENT flag was given or message file does not exist, no message printed.

6.4.5. EXAMPLES

For an example of the use of this module, we show how it may be used to print information about good passwords:

```
password optional pam_echo.so file=/usr/share/doc/good-password.txt
password required
 pam_unix.so
```

6.4.6. AUTHOR

Thorsten Kukuk <kukuk@thkukuk.de>

6.5. pam_env - set/unset environment variables

pam_env.so [debug] [conffile=conf-file] [envfile=env-file] [readenv=0|1] [user_envfile=env-file] [user_readenv=0|1]

6.5.1. DESCRIPTION

The pam_env PAM module allows the (un)setting of environment variables. Supported is the use of previously set environment variables as well as PAM_ITEMs such as PAM_RHOST.

Rules for (un)setting of variables can be defined in an own config file. The path to this file can be specified with the conffile option. If this file does not exist, the default rules are taken from the config files /etc/security/pam_env.conf and /etc/security/pam_env.conf.d/*.conf. If the file /etc/security/pam_env.conf does not exist, the rules are taken from the files %vendordir%/security/pam_env.conf, %vendordir%/security/pam_env.conf.d/*.conf and /etc/security/pam_env.conf.d/*.conf in that order.

By default rules for (un)setting of variables
are taken from the config file /
etc/security/pam_env.conf. If this file does not exist %vendordir%/security/pam_env.conf is used. An alternate file can be specified with the conffile option, which overrules all other files.

By default rules for (un)setting of variables are taken from the config file /etc/security/pam_env.conf. An alternate file can be specified with the conffile option.

Environment variables can be defined in a file with simple KEY=VAL pairs on separate lines. The path to this file can be specified with the envfile option. If this file has not been defined, the settings are read from the files /etc/security/environment and /etc/security/environment.d/*. If the file /etc/environment does not exist, the settings are read from the files %vendordir%/environment, %vendordir%/environment.d/* and /etc/environment.d/* in that order. And last but not least, with the readenv option this mechanism can be completely disabled.

Second a file (/etc/environment by default)
with simple KEY=VAL pairs on
separate lines will be read. If this file does not exist, %vendordir%/etc/environment is used. With the envfile option an alternate file can be specified, which overrules all other files. And with the readenv option this

can be completely disabled.

Second a file (/etc/environment by default) with simple KEY=VAL pairs on separate lines will be read. With the envfile option an alternate file can be specified. And with the readenv option this can be completely disabled.

Third it will read a user configuration file ($HOME/.pam_environment by default). The default file can be changed with the user_envfile option and it can be turned on and off with the user_readenv option.

Since setting of PAM environment variables can have side effects to other modules, this module should be the last one on the stack.

6.5.2. DESCRIPTION

The %vendordir%/security/pam_env.conf and /etc/security/pam_env.conf files specify the environment variables to be set, unset or modified by pam_env(8).
When someone logs in, these files are read and the environment variables are set according.

The /etc/security/pam_env.conf file specifies the environment variables to be set, unset or modified by pam_env(8). When someone logs in, this file is read and the environment variables are set according.

Each line starts with the variable name, there are then two possible options for each variable DEFAULT and OVERRIDE. DEFAULT allows an administrator to set the value of the variable to some default value, if none is supplied then the empty string is assumed. The OVERRIDE option tells pam_env that it should enter in its value (overriding the default value) if there is one to use. When OVERRIDE is not used, "" is assumed and no override will be done.

VARIABLE [DEFAULT=[value]] [OVERRIDE=[value]]

(Possibly non-existent) environment variables may be used in values using the ${string} syntax and (possibly non-existent) PAM_ITEMs as well as HOME and SHELL may be used in values using the @{string} syntax. Both the $ and @ characters can be backslash escaped to be used as literal values values can be delimited with "", escaped " not supported. Note that many environment variables that you would like to use may not be set by the time the module is called. For example, ${HOME} is used below several times, but many PAM applications don't make it available by the time you need it. The special variables @{HOME} and @{SHELL} are expanded to the values for the user from his passwd entry.

The "#" character at start of line (no space at front) can be used to mark this line as a comment line.

The %vendordir%/environment and /etc/environment files specify the environment variables to be set. These files must consist of simple NAME=VALUE pairs on separate lines. The pam_env(8) module will read these files after the pam_env.conf file.

The /etc/environment file specifies the environment variables to be set. The file must consist of simple NAME=VALUE pairs on separate lines. The pam_env(8) module will read the file after the pam_env.conf file.

6.5.3. OPTIONS

conffile=/path/to/pam_env.conf

Indicate an alternative pam_env.conf style configuration file to override the default. This can be useful when different services need different environments.

debug

A lot of debug information is printed with syslog(3).

envfile=/path/to/environment

Indicate an alternative environment file to override the default. The syntax are simple KEY=VAL pairs on separate lines. The export instruction can be specified for bash compatibility, but will be ignored. This can be useful when different services need different environments.

readenv=0|1

Turns on or off the reading of the file specified by envfile (0 is off, 1 is on). By default this option is on.

user_envfile=filename

Indicate an alternative .pam_environment file to override the default.The syntax is the same as for /etc/security/pam_env.conf. The filename is relative to the user home directory. This can be useful when different services need different environments.

user_readenv=0|1

Turns on or off the reading of the user specific environment file. 0 is off, 1 is on. By default this option is off as user supplied environment variables in the PAM environment could affect behavior of subsequent modules in the stack without the consent of the system administrator.

Due to problematic security this functionality is deprecated since the 1.5.0 version and will be removed completely at some point in the future.

6.5.4. MODULE TYPES PROVIDED

The auth and session module types are provided.

6.5.5. RETURN VALUES

PAM_ABORT

Not all relevant data or options could be gotten.

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

No pam_env.conf and environment file was found.

PAM_SUCCESS

Environment variables were set.

6.5.6. FILES

%vendordir%/security/pam_env.conf, /etc/security/pam_env.conf

Default configuration file

%vendordir%/environment, /etc/environment

Default environment file

$HOME/.pam_environment

User specific environment file

6.5.7. EXAMPLES

These are some example lines which might be specified in /etc/security/pam_env.conf.

Set the REMOTEHOST variable for any hosts that are remote, default to "localhost" rather than not being set at all

```
    REMOTEHOST     DEFAULT=localhost OVERRIDE=@{PAM_RHOST}
```

Set the DISPLAY variable if it seems reasonable

```
    DISPLAY        DEFAULT=${REMOTEHOST}:0.0 OVERRIDE=${DISPLAY}
```

Now some simple variables

```
    PAGER          DEFAULT=less
    MANPAGER       DEFAULT=less
    LESS           DEFAULT="M q e h15 z23 b80"
    NNTPSERVER     DEFAULT=localhost
    PATH           DEFAULT=${HOME}/bin:/usr/local/bin:/bin\
    :/usr/bin:/usr/local/bin/X11:/usr/bin/X11
    XDG_DATA_HOME  DEFAULT=@{HOME}/share/
```

Silly examples of escaped variables, just to show how they work.

```
    DOLLAR         DEFAULT=\$
    DOLLARDOLLAR
  DEFAULT=         OVERRIDE=\$${DOLLAR}
    DOLLARPLUS     DEFAULT=\${REMOTEHOST}${REMOTEHOST}
    ATSIGN         DEFAULT=""      OVERRIDE=\@
```

6.5.8. AUTHOR

pam_env was written by Dave Kinchlea <kinch@kinch.ark.com>.

6.6. pam_exec - call an external command

pam_exec.so [debug] [expose_authtok] [seteuid] [quiet] [quiet_log] [
stdout] [log=file] [type=type] command [...]

6.6.1. DESCRIPTION

pam_exec is a PAM module that can be used to run an external command.

The child's environment is set to the current PAM environment list, as returned
by pam_getenvlist(3) In addition, the following PAM items are exported as
environment variables: PAM_RHOST, PAM_RUSER, PAM_SERVICE, PAM_TTY, PAM_USER and
PAM_TYPE, which contains one of the module types: account, auth, password,
open_session and close_session.

Commands called by pam_exec need to be aware of that the user can have control over the environment.

6.6.2. OPTIONS

debug

Print debug information.

expose_authtok

During authentication the calling command can read the password from stdin (3). Only first PAM_MAX_RESP_SIZE bytes of a password are provided to the command.

log=file

The output of the command is appended to file

type=type

Only run the command if the module type matches the given type.

stdout

Per default the output of the executed command is written to /dev/null. With this option, the stdout output of the executed command is redirected to the calling application. It's in the responsibility of this application what happens with the output. The log option is ignored.

quiet

Per default pam_exec.so will echo the exit status of the external command if it fails. Specifying this option will suppress the message.

quiet_log

Per default pam_exec.so will log the exit status of the external command if it fails. Specifying this option will suppress the log message.

seteuid

Per default pam_exec.so will execute the external command
with the real
user ID of the calling process. Specifying this option means the command is run with the effective user ID.

6.6.3. MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

6.6.4. RETURN VALUES

PAM_SUCCESS

The external command was run successfully.

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

The conversation method supplied by the application failed to obtain the username.

PAM_INCOMPLETE

The conversation method supplied by the application returned PAM_CONV_AGAIN.

PAM_SERVICE_ERR

No argument or a wrong number of arguments were given.

PAM_SYSTEM_ERR

A system error occurred or the command to execute failed.

PAM_IGNORE

pam_setcred was called, which does not execute the command. Or, the value given for the type= parameter did not match the module type.

6.6.5. EXAMPLES

Add the following line to /etc/pam.d/passwd to rebuild the NIS database after each local password change:

```
password optional pam_exec.so seteuid /usr/bin/make -C /var/yp
```

This will execute the command

make -C /var/yp

with effective user ID.

6.6.6. AUTHOR

pam_exec was written by Thorsten Kukuk <kukuk@thkukuk.de> and Josh Triplett <josh@joshtriplett.org>.

6.7. pam_faildelay - change the delay on failure per-application

pam_faildelay.so [debug] [delay=microseconds]

6.7.1. DESCRIPTION

pam_faildelay is a PAM module that can be used to set the delay on failure per-application.

If no delay is given, pam_faildelay will use the value of FAIL_DELAY from /etc/login.defs.

6.7.2. OPTIONS

debug

Turns on debugging messages sent to syslog.

delay=N

Set the delay on failure to N microseconds.

6.7.3. MODULE TYPES PROVIDED

Only the auth module type is provided.

6.7.4. RETURN VALUES

PAM_IGNORE

Delay was successful adjusted.

PAM_SYSTEM_ERR

The specified delay was not valid.

6.7.5. EXAMPLES

The following example will set the delay on failure to 10 seconds:

auth

optional pam_faildelay.so delay=10000000

6.7.6. AUTHOR

pam_faildelay was written by Darren Tucker <dtucker@zip.com.au>.

6.8. pam_faillock - temporarily locking access based on failed authentication attempts during an interval

auth ... pam_faillock.so { preauth|authfail|authsucc } [conf=/path/to/config-file] [dir=/path/to/tally-directory] [even_deny_root] [deny=n] [fail_interval=n] [unlock_time=n] [root_unlock_time=n] [admin_group=name] [audit] [silent] [no_log_info]

account ... pam_faillock.so [dir=/path/to/tally-directory] [no_log_info]

6.8.1. DESCRIPTION

This module maintains a list of failed authentication attempts per user during a specified interval and locks the account in case there were more than deny consecutive failed authentications.

Normally, failed attempts to authenticate root will not cause the root account to become blocked, to prevent denial-of-service: if your users aren't given shell accounts and root may only login via su or
at the machine console (not
telnet/rsh, etc), this is safe.

6.8.2. OPTIONS

{preauth|authfail|authsucc}

This argument must be set accordingly to the position of this module instance in the PAM stack.

The preauth argument must be used when the module is called before the modules which ask for the user credentials such as the password. The module just examines whether the user should be blocked from accessing the service in case there were anomalous number of failed consecutive authentication attempts recently. This call is optional if authsucc is used.

The authfail argument must be used when the module is called after the modules which determine the authentication outcome, failed. Unless the user is already blocked due to previous authentication failures, the module will record the failure into the appropriate user tally file.

The authsucc argument must be used when the module is called after the

modules which determine the authentication
outcome, succeeded. Unless the
user is already blocked due to previous authentication failures, the module will then clear the record of the failures in the respective user tally file. Otherwise it will return authentication error. If this call is not done, the pam_faillock will not distinguish between consecutive and non-consecutive failed authentication attempts. The preauth call must be used in such case. Due to complications in the way the PAM stack can be configured it is also possible to call pam_faillock as an account module. In such configuration the module must be also called in the preauth stage.

conf=/path/to/config-file

Use another configuration file instead of the default /etc/security/faillock.conf.

Use another configuration file instead of the default which is to use the file /etc/security/faillock.conf or, if that one is not present, the file %vendordir%/security/faillock.conf.

The options for configuring
the module behavior are described in the
faillock.conf(5) manual page. The options specified on the module command line override the values from the configuration file.

6.8.3. MODULE TYPES PROVIDED

The auth and account module types are provided.

6.8.4. RETURN VALUES

PAM_AUTH_ERR

An invalid option was given, the module was not able to retrieve the user name, no valid counter file was found, or too many failed logins.

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

The conversation method supplied by the application failed to obtain the username.

PAM_INCOMPLETE

The conversation method supplied by the application returned

PAM_CONV_AGAIN.

PAM_SUCCESS

Everything was successful.

PAM_IGNORE

User not present in passwd database.

6.8.5. EXAMPLES

Here are two possible configuration examples for /etc/pam.d/login. They make pam_faillock to lock the account after 4 consecutive failed logins during the default interval of 15 minutes. Root account
will be locked as well. The
accounts will be automatically unlocked after 20 minutes.

In the first example the module is called only in the auth phase and the module does not print any information about the account being blocked by pam_faillock. The preauth call can be added to tell users that their logins are blocked by the module and also to abort the authentication without even asking for password in such case.

/etc/security/faillock.conf file example:

```
deny=4
unlock_time=1200
silent
```

/etc/pam.d/config file example:

```
auth     required       pam_securetty.so
auth     required       pam_env.so
auth     required       pam_nologin.so
# optionally call: auth requisite pam_faillock.so preauth
# to display the message about account being locked
auth     [success=1 default=bad] pam_unix.so
auth     [default=die]  pam_faillock.so authfail
auth     sufficient     pam_faillock.so authsucc
auth     required       pam_deny.so
account  required       pam_unix.so
password required       pam_unix.so
 shadow
session  required       pam_selinux.so close
session  required       pam_loginuid.so
session  required       pam_unix.so
```

```
session  required       pam_selinux.so open
```

In the second example the module is called both in the auth and account phases and the module informs the authenticating user when the account is locked if silent option is not specified in the faillock.conf.

```
auth     required       pam_securetty.so
auth     required       pam_env.so
auth     required       pam_nologin.so
auth     required       pam_faillock.so preauth
# optionally use requisite above if you do not want to prompt for the password
# on locked accounts
auth     sufficient     pam_unix.so
auth     [default=die]  pam_faillock.so authfail
auth     required       pam_deny.so
account  required       pam_faillock.so
# if you drop the above call to pam_faillock.so the lock will be done also
# on non-consecutive authentication failures
account  required       pam_unix.so
password required       pam_unix.so
 shadow
session  required       pam_selinux.so close
session  required       pam_loginuid.so
session  required       pam_unix.so
session  required       pam_selinux.so open
```

6.8.6. AUTHOR

pam_faillock was written by Tomas Mraz.

6.9. pam_filter - filter module

pam_filter.so [debug] [new_term] [non_term] run1|run2 filter [...]

6.9.1. DESCRIPTION

This module is intended to be a platform for providing access to all of the input/output that passes between the user and the application. It is only suitable for tty-based and (stdin/stdout) applications.

To function this module requires filters to be installed on the system. The single filter provided with the module simply transposes upper and lower case letters in the input and output streams. (This can be very annoying and is not kind to termcap based editors).

Each component of the module has the potential to invoke the desired filter.

The filter is always execv(2) with the privilege of the calling application and not
that of the user. For this reason it cannot usually be killed by the user without closing their session.

6.9.2. OPTIONS

debug

Print debug information.

new_term

The default action of the filter is to set the PAM_TTY item to indicate the terminal that the user is using to connect to the application. This argument indicates that the filter should set PAM_TTY to the filtered pseudo-terminal.

non_term

don't try to set the PAM_TTY item.

runX

In order that the module can invoke a filter it should know when to invoke it. This argument is required to tell the filter when to do this.

Permitted values for X are 1 and 2. These indicate the precise time that the filter is to be run. To understand this concept it will be useful to have read the pam(3) manual page. Basically, for each management group there are up to two ways of calling the module's functions. In the case of the authentication and session components there are actually two separate
functions. For the case of authentication, these functions are pam_authenticate(3) and pam_setcred(3), here run1 means run the filter from the pam_authenticate function and run2 means run the filter from pam_setcred. In the case of the session modules, run1 implies that the filter is invoked at the pam_open_session(3) stage, and run2 for pam_close_session(3).

For the case of the account component. Either run1 or run2 may be used.

For the case of the password component, run1 is used to indicate that the filter is run on the first occasion of pam_chauthtok(3) (the PAM_PRELIM_CHECK phase) and run2 is used to indicate that the filter is run on the second occasion (the PAM_UPDATE_AUTHTOK phase).

filter

The full pathname of the filter to be run and any command line arguments that the filter might expect.

6.9.3. MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

6.9.4. RETURN VALUES

PAM_SUCCESS

The new filter was set successfully.

PAM_ABORT

Critical error, immediate abort.

6.9.5. EXAMPLES

Add the following line to /etc/pam.d/login to see how to configure login to transpose upper and lower case letters once the user has logged in:

```
session required pam_filter.so run1 /lib/security/pam_filter/upperLOWER
```

6.9.6. AUTHOR

pam_filter was written by Andrew G. Morgan <morgan@kernel.org>.

6.10. pam_ftp - module for anonymous access

pam_ftp.so [debug] [ignore] [users=XXX,YYY, ...]

6.10.1. DESCRIPTION

pam_ftp is a PAM module which provides a pluggable anonymous ftp mode of access.

This module intercepts the user's name and password. If the name is ftp or anonymous, the user's password is broken up at the @ delimiter into a PAM_RUSER and a PAM_RHOST part; these pam-items being set accordingly. The username (PAM_USER) is set to ftp. In this case the module succeeds. Alternatively, the module sets the PAM_AUTHTOK item with the entered password and fails.

This module is not safe and easily spoofable.

6.10.2. OPTIONS

debug

Print debug information.

ignore

Pay no attention to the email address of the user (if supplied).

ftp=XXX,YYY,...

Instead of ftp or anonymous, provide anonymous login to the comma separated list of users: XXX,YYY,.... Should the applicant enter one of these usernames the returned username is set to the first in the list: XXX.

6.10.3. MODULE TYPES PROVIDED

Only the auth module type is provided.

6.10.4. RETURN VALUES

PAM_SUCCESS

The authentication was successful.

PAM_USER_UNKNOWN

User not known.

6.10.5. EXAMPLES

Add the following line to /etc/pam.d/ftpd to handle ftp style anonymous login:

```
#
# ftpd; add ftp-specifics. These lines enable anonymous ftp over
#       standard UN*X access (the listfile entry blocks access to
#       users listed in /etc/ftpusers)
#
auth    sufficient  pam_ftp.so
auth    required    pam_unix.so use_first_pass
auth    required    pam_listfile.so
 \
        onerr=succeed item=user sense=deny file=/etc/ftpusers
```

6.10.6. AUTHOR

pam_ftp was written by Andrew G. Morgan <morgan@kernel.org>.

6.11. pam_group - module to modify group access

pam_group.so

6.11.1. DESCRIPTION

The pam_group PAM module does not authenticate the user, but instead it grants group memberships (in the credential setting phase of the authentication module) to the user. Such memberships are based on the service they are applying for.

By default rules for group memberships are taken from config file /etc/security /group.conf.

If /etc/security/group.conf does not exist, %vendordir%/security/group.conf is used.

This module's usefulness relies on the file-systems accessible to the user. The point being that once granted the membership of a group, the user may attempt to create a setgid binary with a restricted group ownership. Later, when the user is not given membership to this group, they can recover group membership with the precompiled binary.
 The reason that the file-systems that the user has
access to are so significant, is the fact that when a system is mounted nosuid the user is unable to create or execute such a binary file. For this module to provide any level of security, all file-systems that the user has write access to should be mounted nosuid.

The pam_group module functions in parallel with the /etc/group file. If the user is granted any groups based on the behavior of this module, they are granted in addition to those entries /etc/group (or equivalent).

6.11.2. DESCRIPTION

The pam_group PAM module does not authenticate the user, but instead it grants group memberships (in the credential setting phase of the authentication module) to the user. Such memberships are based on the service they are applying for.

For this module to function correctly there must be a correctly formatted /etc/ security/group.conf file present. White spaces are ignored and lines maybe extended with '\' (escaped newlines). Text following
 a '#' is ignored to the
end of the line.

The syntax of the lines is as follows:

services;ttys;users;times;groups

The first field, the services field, is a logic list of PAM service names that the rule applies to.

The second field, the tty field, is a logic list of terminal names that this rule applies to.

The third field, the users field, is a logic list of users, or a UNIX group, or a netgroup of users to whom this rule applies. Group names are preceded by a '%' symbol, while netgroup names are preceded by a '@' symbol.

A logic list namely means individual tokens that are optionally prefixed with '!' (logical not) and separated with '&' (logical and) and '|' (logical or).

For these items the simple wildcard '*' may be used only once. With UNIX groups or netgroups no wildcards or logic operators are allowed.

The times field is used to indicate "when" these groups are to be given to the user. The format here is a logic list of day/time-range entries. The days are specified by
a sequence of two character entries, MoTuSa for example is Monday Tuesday and Saturday. Note that repeated days are unset MoMo = no day, and MoWk = all weekdays bar Monday. The two character combinations accepted are Mo Tu We Th Fr Sa Su Wk Wd Al, the last two being week-end days and all 7 days of the week respectively. As a final example, AlFr means all days except Friday.

Each day/time-range can be prefixed with a '!' to indicate "anything but". The time-range part is two 24-hour times HHMM, separated by a hyphen, indicating the start and finish time (if the finish time is smaller than the start time it is deemed to apply on the following day).

The groups field is a comma or space separated list of groups that the user inherits membership of. These groups are added if the previous fields are satisfied by the user's request.

For a rule to be active, ALL of service+ttys+users must be satisfied by the applying process.

6.11.3. OPTIONS

This module does not recognise any options.

6.11.4.
MODULE TYPES PROVIDED

Only the auth module type is provided.

6.11.5. RETURN VALUES

PAM_SUCCESS

group membership was granted.

PAM_ABORT

Not all relevant data could be gotten.

PAM_BUF_ERR

Memory buffer error.

PAM_CRED_ERR

Group membership was not granted.

PAM_IGNORE

pam_sm_authenticate was called which does nothing.

PAM_USER_UNKNOWN

The user is not known to the system.

6.11.6. FILES

/etc/security/group.conf

Default configuration file

6.11.7. EXAMPLES

These are some example lines which might be specified in /etc/security/group.conf.

Running 'xsh' on tty* (any ttyXXX device), the user 'us' is given access to the floppy (through membership of the floppy group)

xsh;tty*&!ttyp*;us;Al0000-2400;floppy

Running 'xsh' on tty* (any ttyXXX device), the users 'sword', 'pike' and 'shield' are given access to games (through membership of the floppy group) after work hours.

xsh; tty* ;sword|pike|shield;!Wk0900-1800;games, sound

xsh; tty* ;*;Al0900-1800;floppy

Any
 member of the group 'admin' running 'xsh' on tty*, is granted access (at
any time) to the group 'plugdev'

xsh; tty* ;%admin;Al0000-2400;plugdev

6.11.8. AUTHORS

pam_group was written by Andrew G. Morgan <morgan@kernel.org>.

6.12. pam_issue - add issue file to user prompt

pam_issue.so [noesc] [issue=issue-file-name]

6.12.1. DESCRIPTION

pam_issue is a PAM module to prepend an issue file to the username prompt. It
also by default parses escape codes in the issue file similar to some common
getty's (using \x format).

Recognized escapes:

\d

  current day

\l

  name of this tty

\m

  machine architecture (uname -m)

\n

  machine's network node hostname (uname -n)

\o

  domain name of this system

\r

release number of operating system (uname -r)

\t

current time

\s

operating system name (uname -s)

\u

number of users currently logged in

\U

same as \u except it is suffixed with "user" or "users" (eg. "1 user" or "10
users")

\v

operating system version and build date (uname -v)

6.12.2. OPTIONS

noesc

Turns off escape code parsing.

issue=issue-file-name

The file to output if not using the default.

6.12.3. MODULE TYPES PROVIDED

Only the auth module type is provided.

6.12.4. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

The prompt was already changed.

PAM_SERVICE_ERR

A service module error occurred.

PAM_SUCCESS

The new prompt was set successfully.

6.12.5. EXAMPLES

Add the following line to /etc/pam.d/login to set the user specific issue at login:

```
auth optional pam_issue.so issue=/etc/issue
```

6.12.6. AUTHOR

pam_issue was written by Ben Collins <bcollins@debian.org>.

6.13. pam_keyinit - display the keyinit file

pam_keyinit.so [debug] [force] [revoke]

6.13.1. DESCRIPTION

The pam_keyinit PAM module ensures that the invoking process has a session keyring other than the user default session keyring.

The module checks to see if
the process's session keyring is the
user-session-keyring(7), and, if it is, creates a new session-keyring(7) with which to replace it. If a new session keyring is created, it will install a link to the user-keyring(7) in the session keyring so that keys common to the user will be automatically accessible through it. The session keyring of the invoking process will thenceforth be inherited by all its children unless they override it.

In order to allow other PAM modules to attach tokens to the keyring, this module provides both an auth (limited to pam_setcred(3) and a session component. The session keyring is created in the module called. Moreover this module should be included as early as possible in a PAM configuration.

This module is intended primarily for use by login processes. Be aware that after the session keyring has been replaced, the old session keyring and the keys it contains will no longer be accessible.

This module should not, generally, be invoked by programs like su,

since it is
usually desirable for the key set to percolate through to the alternate
context. The keys have their own permissions system to manage this.

The keyutils package is used to manipulate keys more directly. This can be
obtained from:

Keyutils

6.13.2. OPTIONS

debug

Log debug information with syslog(3).

force

Causes the session keyring of the invoking process to be replaced
unconditionally.

revoke

Causes the session keyring of the invoking process to be revoked when the
invoking process exits if the session keyring was created for this process
in the first place.

6.13.3. MODULE TYPES PROVIDED

Only the session module type is provided.

6.13.4. RETURN VALUES

PAM_SUCCESS

This module will usually return this value

PAM_AUTH_ERR

Authentication failure.

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

The return value should be ignored by PAM dispatch.

PAM_SERVICE_ERR

Cannot determine the user name.

PAM_SESSION_ERR

This
module will return this value if its arguments are invalid or if a
system error such as ENOMEM occurs.

PAM_USER_UNKNOWN

User not known.

6.13.5. EXAMPLES

Add this line to your login entries to start each login session with its own session keyring:

session required pam_keyinit.so

This will prevent keys from one session leaking into another session for the same user.

6.13.6. AUTHOR

pam_keyinit was written by David Howells, <dhowells@redhat.com>.

6.14. pam_lastlog - display date of last login

pam_lastlog.so [debug] [silent] [never] [nodate] [nohost] [noterm] [nowtmp] [noupdate] [showfailed] [inactive=<days>] [unlimited]

6.14.1. DESCRIPTION

pam_lastlog is a PAM module to display a line of information about the last login of the user. In addition, the module maintains the /var/log/lastlog file.

Some applications may perform this function themselves. In such cases, this module is not necessary.

The module checks LASTLOG_UID_MAX option in /etc/login.defs
and does not update
or display last login records for users with UID higher than its value. If the option is not present or its value is invalid, no user ID limit is applied.

If the module is called in the auth or account phase, the accounts that were

not used recently enough will be disallowed to log in. The check is not performed for the root account so the root is never locked out. It is also not performed for users with UID higher than the LASTLOG_UID_MAX value.

6.14.2. OPTIONS

debug

Print debug information.

silent

Don't inform the user about any previous login, just update the /var/log/lastlog file. This option does not affect display of bad login attempts.

never

If the /var/log/lastlog file does not contain any old entries for the user, indicate that the user has never previously logged in with a welcome message.

nodate

Don't display the date of the last login.

noterm

Don't display the terminal name on which the last login was attempted.

nohost

Don't indicate from which host the last login was attempted.

nowtmp

Don't update the wtmp entry.

noupdate

Don't update any file.

showfailed

Display number of failed login attempts and the date of the last failed attempt from btmp. The date is not displayed when nodate is specified.

inactive=<days>

This option is specific for the auth or account phase. It specifies the number of days after the last login of the user when the user will be locked out by the module. The default value is 90.

unlimited

If the fsize limit is set, this option can be used to override it, preventing failures on systems with large UID values that lead lastlog to become a huge sparse file.

6.14.3. MODULE TYPES PROVIDED

The auth and account module type allows one to lock out users who did not login recently enough. The session module type is provided for displaying the information about the last login and/or updating the lastlog and wtmp files.

6.14.4.
RETURN VALUES

PAM_SUCCESS

Everything was successful.

PAM_SERVICE_ERR

Internal service module error.

PAM_USER_UNKNOWN

User not known.

PAM_AUTH_ERR

User locked out in the auth or account phase due to inactivity.

PAM_IGNORE

There was an error during reading the lastlog file in the auth or account phase and thus inactivity of the user cannot be determined.

6.14.5. EXAMPLES

Add the following line to /etc/pam.d/login to display the last login time of a user:

```
session  required  pam_lastlog.so nowtmp
```

To reject the user if he did not login during the previous 50 days the following line can be used:

```
  auth  required  pam_lastlog.so inactive=50
```

6.14.6. AUTHOR

pam_lastlog was written by Andrew G. Morgan <morgan@kernel.org>.

Inactive account lock out added by Tomáš Mráz <tm@t8m.info>.

6.15. pam_limits - limit resources

pam_limits.so [conf=/path/to/limits.conf] [debug] [set_all] [utmp_early] [noaudit]

6.15.1. DESCRIPTION

The
 pam_limits PAM module sets limits on the system resources that can be obtained in a user-session. Users of uid=0 are affected by this limits, too.

By default limits are taken from the /etc/security/limits.conf config file. Then individual *.conf files from the /etc/security/limits.d/ directory are read. The files are parsed one after another in the order of "C" locale. The effect of the individual files is the same as if all the files were concatenated together in the order of parsing. If a config file is explicitly specified with a module option then the files in the above directory are not parsed.

By default limits are taken from the /etc/security/limits.conf config file or, if that one is not present, the file %vendordir%/security/limits.conf. Then individual *.conf files from the /etc/security/limits.d/ and %vendordir%/security/limits.d directories are read. If /etc/security/limits.d/@filename@.conf exists, then %vendordir%/security/limits.d/@filename@.conf will not be used.
 All limits.d/*.conf files are sorted by their @filename@.conf in lexicographic order regardless of which of the directories they reside in. The effect of the individual files is the same as if all the files were concatenated together in the order of parsing. If a config file is explicitly specified with the config option the files in the above directories are not parsed.

The module must not be called by a multithreaded application.

If Linux PAM is compiled with audit support the module will report when it

denies access based on limit of maximum number of concurrent login sessions.

6.15.2. DESCRIPTION

The pam_limits.so module applies ulimit limits, nice priority and number of simultaneous login sessions limit to user login sessions. This description of the configuration file syntax applies to the /etc/security/limits.conf file and *.conf files in the /etc/security/limits.d directory.

The syntax of the lines is as follows:

<domain> <type> <item> <value>

The fields listed above should
be filled as follows:

<domain>
a username

a groupname, with @group syntax. This should not be confused with netgroups.

the wildcard *, for default entry.

the wildcard %, for maxlogins limit only, can also be used with %group syntax. If the % wildcard is used alone it is identical to using * with maxsyslogins limit. With a group specified after % it limits the total number of logins of all users that are member of the group.

an uid range specified as <min_uid>:<max_uid>. If min_uid is omitted, the match is exact for the max_uid. If max_uid is omitted, all uids greater than or equal min_uid match.

a gid range specified as @<min_gid>:<max_gid>. If min_gid is omitted, the match is exact for the max_gid. If max_gid is omitted, all gids greater than or equal min_gid match. For the exact match all groups including the user's supplementary groups are examined. For
the range
matches only the user's primary group is examined.

a gid specified as %:<gid> applicable to maxlogins limit only. It limits the total number of logins of all users that are member of the group with the specified gid.

<type>

hard

for enforcing hard resource limits. These limits are set by the superuser and enforced by the Kernel. The user cannot raise his requirement of system resources above such values.

soft

for enforcing soft resource limits. These limits are ones that the user can move up or down within the permitted range by any pre-existing hard limits. The values specified with this token can be thought of as default values, for normal system usage.

-

for enforcing both soft and hard resource limits together.

Note, if you specify a type of '-' but neglect to supply the item and value fields then the module will never enforce any limits on the specified user/group etc. .

<item>

core

limits the core file size (KB)

data

maximum data size (KB)

fsize

maximum filesize (KB)

memlock

maximum locked-in-memory address space (KB)

nofile

maximum number of open file descriptors

rss

maximum resident set size (KB) (Ignored in Linux 2.4.30 and higher)

stack

maximum stack size (KB)

cpu

maximum CPU time (minutes)

nproc

maximum number of processes

as

address space limit (KB)

maxlogins

maximum number of logins for this user (this limit does not apply to user with uid=0)

maxsyslogins

maximum number of all logins on system; user is not allowed to log-in if total number of all user logins is greater than specified number (this limit does not apply to user with uid=0)

nonewprivs

value of 0 or 1; if set to 1 disables acquiring new privileges by invoking prctl(PR_SET_NO_NEW_PRIVS)

priority

the priority to run user process with (negative values boost process priority)

locks

maximum locked files (Linux 2.4 and higher)

sigpending

maximum number of pending signals (Linux 2.6 and higher)

msgqueue

maximum memory used by POSIX message queues (bytes) (Linux 2.6 and higher)

nice

maximum nice priority allowed to raise to (Linux 2.6.12 and higher) values: [-20,19]

rtprio

maximum realtime priority allowed for non-privileged processes (Linux 2.6.12 and higher)

All items support the values -1, unlimited or infinity indicating no limit, except for priority, nice, and nonewprivs. If nofile is to be set to one of these values, it will be set to the contents of /proc/sys/fs/nr_open instead (see setrlimit(3)).

If a hard limit or soft limit of a resource is set to a valid value, but outside of the supported range
of the local system, the system may reject the
new limit or unexpected behavior may occur. If the control value required is used, the module will reject the login if a limit could not be set.

In general, individual limits have priority over group limits, so if you impose no limits for admin group, but one of the members in this group have a limits line, the user will have its limits set according to this line.

Also, please note that all limit settings are set per login. They are not global, nor are they permanent; existing only for the duration of the session. One exception is the maxlogin option, this one is system wide. But there is a race, concurrent logins at the same time will not always be detect as such but only counted as one.

In the limits configuration file, the '#' character introduces a comment - after which the rest of the line is ignored.

The pam_limits module does report configuration problems found in its configuration file and errors via syslog(3).

6.15.3. OPTIONS

conf=/path/to/limits.conf

Indicate an alternative limits.conf style configuration file to override the default.

debug

Print debug information.

set_all

Set the limits for which no value is specified in the configuration file to the one from the process with the PID 1. Please note that if the init process is systemd these limits will not be the kernel default limits and this option should not be used.

utmp_early

Some broken applications actually allocate a utmp entry for the user before the user is admitted to the system. If some of the services you are configuring PAM for do this, you can selectively use this module argument to compensate for this behavior and at the same time maintain system-wide consistency with a single limits.conf file.

noaudit

Do not report exceeded maximum logins count to the audit subsystem.

6.15.4. MODULE TYPES PROVIDED

Only the session module type is provided.

6.15.5. RETURN VALUES

PAM_ABORT

Cannot get current limits.

PAM_IGNORE

No limits found for this user.

PAM_PERM_DENIED

New limits could not be set.

PAM_SERVICE_ERR

Cannot read config file.

PAM_SESSION_ERR

Error recovering account name.

PAM_SUCCESS

Limits were changed.

PAM_USER_UNKNOWN

The user is not known to the system.

6.15.6. FILES

/etc/security/limits.conf

Default configuration file

%vendordir%/security/limits.conf

Default configuration file if /etc/security/limits.conf does not exist.

6.15.7. EXAMPLES

These are some example lines which might be specified in /etc/security/limits.conf.

```
*               soft    core            0
*               hard    nofile          512
@student        hard    nproc           20
@faculty        soft    nproc           20
@faculty        hard    nproc           50
ftp             hard    nproc           0
@student        -       maxlogins       4
@student        -       nonewprivs      1
:123            hard    cpu
  5000
@500:           soft    cpu             10000
600:700         hard    locks           10
```

6.15.8. AUTHORS

pam_limits was initially written by Cristian Gafton <gafton@redhat.com>

6.16. pam_listfile - deny or allow services based on an arbitrary file

pam_listfile.so item=[tty|user|rhost|ruser|group|shell] sense=[allow|deny] file=/path/filename onerr=[succeed|fail] [apply=[user|@group]] [quiet]

6.16.1. DESCRIPTION

pam_listfile is a PAM module which provides a way to deny or allow services based on an arbitrary file.

The module gets the item of the type specified -- user specifies the username, PAM_USER; tty specifies the name of the terminal over which the request has been made, PAM_TTY; rhost specifies the name of the remote host (if any) from which the request was made, PAM_RHOST; and ruser specifies the name of the remote user (if available) who made the request, PAM_RUSER -- and looks for an instance of that item in the file=filename. filename contains one line per item
listed. If the item is found, then if sense=allow, PAM_SUCCESS is returned, causing the authorization request to succeed; else if sense=deny, PAM_AUTH_ERR is returned, causing the authorization request to fail.

If an error is encountered (for instance, if filename does not exist, or a poorly-constructed argument is encountered), then if onerr=succeed, PAM_SUCCESS is returned, otherwise if onerr=fail, PAM_AUTH_ERR or PAM_SERVICE_ERR (as appropriate) will be returned.

An additional argument, apply=, can be used to restrict the application of the above to a specific user (apply=username) or a given group (apply=@groupname). This added restriction is only meaningful when used with the tty, rhost and shell items.

Besides this last one, all arguments should be specified; do not count on any default behavior.

No credentials are awarded by this module.

6.16.2. OPTIONS

item=[tty|user|rhost|ruser|group|shell]

What is listed in the file and should be checked for.

sense=[allow|deny]

Action to take if found in file, if the item is NOT found in the file, then the opposite action is requested.

file=/path/filename

File containing one item per line. The file needs to be a plain file and not world writable.

onerr=[succeed|fail]

What to do if something weird happens like being unable to open the file.

apply=[user|@group]

Restrict the user class for which the restriction apply. Note that with item=[user|ruser|group] this does not make sense, but for item=[tty|rhost|shell] it have a meaning.

quiet

Do not treat service refusals or missing list files as errors that need to be logged.

6.16.3. MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

6.16.4. RETURN VALUES

PAM_AUTH_ERR

Authentication failure.

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

The rule does not apply to the apply option.

PAM_SERVICE_ERR

Error in service module.

PAM_SUCCESS

Success.

6.16.5.
EXAMPLES

Classic 'ftpusers' authentication can be implemented with this entry in /etc/pam.d/ftpd:

```
#
# deny ftp-access to users listed in the /etc/ftpusers file
#
auth    required       pam_listfile.so \
      onerr=succeed item=user sense=deny file=/etc/ftpusers
```

Note, users listed in /etc/ftpusers file are (counterintuitively) not allowed access to the ftp service.

To allow login access only for certain users, you can use a /etc/pam.d/login entry like this:

```
#
# permit login to users listed in /etc/loginusers
#
auth    required       pam_listfile.so \
      onerr=fail item=user sense=allow file=/etc/loginusers
```

For this example to work, all users who are allowed to use the login service should be listed in the file /etc/loginusers. Unless you are explicitly trying to lock out root, make sure that when you do this, you leave a way for root to log in, either by listing root in /etc/loginusers, or by listing a user who is able to su to the root account.

6.16.6. AUTHOR

pam_listfile
 was written by Michael K. Johnson <johnsonm@redhat.com> and Elliot Lee <sopwith@cuc.edu>.

6.17. pam_localuser - require users to be listed in /etc/passwd

pam_localuser.so [debug] [file=/path/passwd]

6.17.1. DESCRIPTION

pam_localuser is a PAM module to help implementing site-wide login policies, where they typically include a subset of the network's users and a few accounts that are local to a particular workstation. Using pam_localuser and pam_wheel or pam_listfile is an effective way to restrict access to either local users and/or a subset of the network's users.

This could also be implemented using pam_listfile.so and a very short awk script invoked by cron, but it's common enough to have been separated out.

6.17.2. OPTIONS

debug

  Print debug information.

file=/path/passwd

Use a file other than /etc/passwd.

6.17.3. MODULE TYPES PROVIDED

All module types (account, auth, password and session) are provided.

6.17.4. RETURN VALUES

PAM_SUCCESS

The
new localuser was set successfully.

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

The conversation method supplied by the application failed to obtain the username.

PAM_INCOMPLETE

The conversation method supplied by the application returned PAM_CONV_AGAIN.

PAM_SERVICE_ERR

The user name is not valid or the passwd file is unavailable.

PAM_PERM_DENIED

The user is not listed in the passwd file.

6.17.5. EXAMPLES

Add the following lines to /etc/pam.d/su to allow only local users or group wheel to use su.

account sufficient pam_localuser.so
account required pam_wheel.so

6.17.6. AUTHOR

pam_localuser was written by Nalin Dahyabhai <nalin@redhat.com>.

6.18. pam_loginuid - record user's login uid to the process attribute

pam_loginuid.so [require_auditd]

6.18.1. DESCRIPTION

The pam_loginuid module sets the loginuid process attribute for the process that was authenticated. This is necessary for applications to be correctly audited. This PAM module
should only be used for entry point applications like:
login, sshd, gdm, vsftpd, crond and atd. There are probably other entry point applications besides these. You should not use it for applications like sudo or su as that defeats the purpose by changing the loginuid to the account they just switched to.

6.18.2. OPTIONS

require_auditd

This option, when given, will cause this module to query the audit daemon status and deny logins if it is not running.

6.18.3. MODULE TYPES PROVIDED

Only the session module type is provided.

6.18.4. RETURN VALUES

PAM_SUCCESS

The loginuid value is set and auditd is running if check requested.

PAM_IGNORE

The /proc/self/loginuid file is not present on the system or the login process runs inside uid namespace and kernel does not support overwriting loginuid.

PAM_SESSION_ERR

Any other error prevented setting loginuid or auditd is not running.

6.18.5. EXAMPLES

```
#%PAM-1.0
auth       required     pam_unix.so
auth       required
```

```
    pam_nologin.so
account    required     pam_unix.so
password   required     pam_unix.so
session    required     pam_unix.so
session    required     pam_loginuid.so
```

6.18.6. AUTHOR

pam_loginuid was written by Steve Grubb <sgrubb@redhat.com>

6.19. pam_mail - inform about available mail

pam_mail.so [close] [debug] [dir=maildir] [empty] [hash=count] [noenv] [nopen] [quiet] [standard]

6.19.1. DESCRIPTION

The pam_mail PAM module provides the "you have new mail" service to the user. It can be plugged into any application that has credential or session hooks. It gives a single message indicating the newness of any mail it finds in the user's mail folder. This module also sets the PAM environment variable, MAIL, to the user's mail directory.

If the mail spool file (be it /var/mail/$USER or a pathname given with the dir= parameter) is a directory then pam_mail assumes it is in the Maildir format.

6.19.2. OPTIONS

close

Indicate if the user has any mail also on logout.

debug

Print debug information.

dir=maildir

Look for the user's mail in an alternative location defined by maildir/<login>. The default location for mail is /var/mail/<login>. Note, if the supplied maildir is prefixed by a '~', the directory is interpreted as indicating a file in the user's home directory.

empty

Also print message if user has no mail.

hash=count

Mail directory hash depth. For example, a hashcount of 2 would make the mail file be /var/spool/mail/u/s/user.

noenv

Do not set the MAIL environment variable.

nopen

Don't print any mail information on login. This flag is useful to get the MAIL environment variable set, but to not display any information about it.

quiet

Only report when there is new mail.

standard

Old style "You have..." format which doesn't show the mail spool being used. This also implies "empty".

6.19.3. MODULE TYPES PROVIDED

The session and auth (on establishment and deletion
of credentials) module
types are provided.

6.19.4. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_SERVICE_ERR

Badly formed arguments.

PAM_SUCCESS

Success.

PAM_USER_UNKNOWN

User not known.

6.19.5. EXAMPLES

Add the following line to /etc/pam.d/login to indicate that the user has new mail when they login to the system.

session optional pam_mail.so standard

6.19.6. AUTHOR

pam_mail was written by Andrew G. Morgan <morgan@kernel.org>.

6.20. pam_mkhomedir - create users home directory

pam_mkhomedir.so [silent] [debug] [umask=mode] [skel=skeldir]

6.20.1. DESCRIPTION

The pam_mkhomedir PAM module will create a users home directory if it does not exist when the session begins. This allows users to be present in central database (such as NIS, kerberos or LDAP) without using a distributed file system or pre-creating a large number of directories. The skeleton directory (usually /etc/skel/) is used to copy default files and also sets a umask for the
creation.

The new users home directory will not be removed after logout of the user.

6.20.2. OPTIONS

silent

Don't print informative messages.

debug

Turns on debugging via syslog(3).

umask=mask

The file mode creation mask is set to mask. The default value of mask is 0022. If this option is not specified, then the permissions of created user home directory is set to the value of HOME_MODE configuration item from /etc/login.defs. If there is no such configuration item then the value is computed from the value of UMASK in the same file. If there is no such configuration option either the default value of 0755 is used for the mode.

skel=/path/to/skel/directory

Indicate an alternative skel directory to override the default /etc/skel.

6.20.3. MODULE TYPES PROVIDED

Only the session module type is provided.

6.20.4. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_PERM_DENIED

Not enough permissions to create the new directory
or read the skel
directory.

PAM_USER_UNKNOWN

User not known to the underlying authentication module.

PAM_SUCCESS

Environment variables were set.

6.20.5. EXAMPLES

A sample /etc/pam.d/login file:

```
auth       requisite   pam_securetty.so
auth       sufficient  pam_ldap.so
auth       required    pam_unix.so
auth       required    pam_nologin.so
account    sufficient  pam_ldap.so
account    required    pam_unix.so
password   required    pam_unix.so
session    required    pam_mkhomedir.so skel=/etc/skel/ umask=0022
session    required    pam_unix.so
session    optional    pam_lastlog.so
session    optional    pam_mail.so standard
```

6.20.6. AUTHOR

pam_mkhomedir was written by Jason Gunthorpe <jgg@debian.org>.

6.21. pam_motd - display the motd file

pam_motd.so [motd=/path/filename] [motd_dir=/path/dirname.d]

6.21.1. DESCRIPTION

pam_motd is a PAM module that can be used to display arbitrary motd (message of the day) files after a successful login.
By default, pam_motd shows files in the following locations:

/etc/motd
/run/motd
/usr/lib/motd
/etc/motd.d/
/run/motd.d/
/usr/lib/motd.d/

Each message size is limited to 64KB.

If /etc/motd does not exist, then /run/motd is shown. If /run/motd does not exist, then /usr/lib/motd is shown.

Similar overriding behavior applies to the directories. Files in /etc/motd.d/ override files with the same name in /run/motd.d/ and /usr/lib/motd.d/. Files in /run/motd.d/ override files with the same name in /usr/lib/motd.d/.

Files in the directories listed above are displayed in lexicographic order by name. Moreover, the files are filtered by reading them with the credentials of the target user authenticating on the system.

To silence a message, a symbolic link with target /dev/null may be placed in /etc/motd.d with the same filename as the message to be silenced. Example: Creating a symbolic link as follows silences /usr/lib/motd.d/my_motd.

ln -s /dev/null /etc/motd.d/my_motd

The MOTD_SHOWN=pam
environment variable is set after showing the motd files, even when all of them were silenced using symbolic links.

6.21.2. OPTIONS

motd=/path/filename

The /path/filename file is displayed as message of the day. Multiple paths to try can be specified as a colon-separated list. By default this option is set to /etc/motd:/run/motd:/usr/lib/motd.

motd_dir=/path/dirname.d

The /path/dirname.d directory is scanned and each file contained inside of it is displayed. Multiple directories to scan can be specified as a colon-separated list. By default this option is set to /etc/motd.d:/run/motd.d:/usr/lib/motd.d.

When no options are given, the default behavior applies for both options. Specifying either option (or both) will disable the default behavior for both options.

6.21.3. MODULE TYPES PROVIDED

Only the session module type is provided.

6.21.4. RETURN VALUES

PAM_ABORT

Not all relevant data or options could be obtained.

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

This is the default return value of this module.

6.21.5. EXAMPLES

The suggested usage for /etc/pam.d/login is:

session optional pam_motd.so

To use a motd file from a different location:

session optional pam_motd.so motd=/elsewhere/motd

To use a motd file from elsewhere, along with a corresponding .d directory:

session optional pam_motd.so motd=/elsewhere/motd motd_dir=/elsewhere/motd.d

6.21.6. AUTHOR

pam_motd was written by Ben Collins <bcollins@debian.org>.

The motd_dir= option was added by Allison Karlitskaya
<allison.karlitskaya@redhat.com>.

6.22. pam_namespace - setup a private namespace

pam_namespace.so [debug] [unmnt_remnt] [unmnt_only] [require_selinux] [
gen_hash] [ignore_config_error] [ignore_instance_parent_mode] [
unmount_on_close] [use_current_context] [use_default_context] [
mount_private]

6.22.1. DESCRIPTION

The pam_namespace PAM module sets up a private namespace for a session with
polyinstantiated
 directories. A polyinstantiated directory provides a different
instance of itself based on user name, or when using SELinux, user name,
security context or both. If an executable script /etc/security/namespace.init
exists, it is used to initialize the instance directory after it is set up and
mounted on the polyinstantiated directory. The script receives the
polyinstantiated directory path, the instance directory path, flag whether the
instance directory was newly created (0 for no, 1 for yes), and the user name
as its arguments.

If /etc/security/namespace.init does not exist, %vendordir%/security/
namespace.init is the alternative to be used for it.

The pam_namespace module disassociates the session namespace from the parent
namespace. Any mounts/unmounts performed in the parent namespace, such as
mounting of devices, are not reflected in the session namespace. To propagate
selected mount/unmount events from the parent namespace into the disassociated
session namespace, an administrator
 may use the special shared-subtree feature.
For additional information on shared-subtree feature, please refer to the mount
(8) man page and the shared-subtree description at http://lwn.net/Articles/
159077 and http://lwn.net/Articles/159092.

6.22.2. DESCRIPTION

The pam_namespace.so module allows setup of private namespaces with
polyinstantiated directories. Directories can be polyinstantiated based on user
name or, in the case of SELinux, user name, sensitivity level or complete
security context. If an executable script /etc/security/namespace.init exists,
it is used to initialize the namespace every time an instance directory is set
up and mounted. The script receives the polyinstantiated directory path and the

instance directory path as its arguments.

The /etc/security/namespace.conf file specifies which directories are polyinstantiated, how they are polyinstantiated, how instance directories would be named, and any users for whom polyinstantiation would not be performed.

The
/etc/security/namespace.conf file (or %vendordir%/security/namespace.conf if it does not exist) specifies which directories are polyinstantiated, how they are polyinstantiated, how instance directories would be named, and any users for whom polyinstantiation would not be performed. Then individual *.conf files from the /etc/security/namespace.d/ and %vendordir%/security/namespace.d directories are taken too. If /etc/security/namespace.d/@filename@.conf exists, then %vendordir%/security/namespace.d/@filename@.conf will not be used. All namespace.d/*.conf files are sorted by their @filename@.conf in lexicographic order regardless of which of the directories they reside in.

When someone logs in, the file namespace.conf is scanned. Comments are marked by # characters. Each non comment line represents one polyinstantiated directory. The fields are separated by spaces but can be quoted by " characters also escape sequences \b, \n, and \t are recognized. The fields are as follows:

polydir
instance_prefix method list_of_uids

The first field, polydir, is the absolute pathname of the directory to polyinstantiate. The special string $HOME is replaced with the user's home directory, and $USER with the username. This field cannot be blank.

The second field, instance_prefix is the string prefix used to build the pathname for the instantiation of <polydir>. Depending on the polyinstantiation method it is then appended with "instance differentiation string" to generate the final instance directory path. This directory is created if it did not exist already, and is then bind mounted on the <polydir> to provide an instance of <polydir> based on the <method> column. The special string $HOME is replaced with the user's home directory, and $USER with the username. This field cannot be blank.

The third field, method, is the method used for polyinstantiation. It can take these values; "user" for polyinstantiation based on user name, "level" for polyinstantiation based on process
MLS level and user name, "context" for
polyinstantiation based on process security context and user name, "tmpfs" for mounting tmpfs filesystem as an instance dir, and "tmpdir" for creating temporary directory as an instance dir which is removed when the user's session is closed. Methods "context" and "level" are only available with SELinux. This field cannot be blank.

The fourth field, list_of_uids, is a comma separated list of user names for whom the polyinstantiation is not performed. If left blank, polyinstantiation will be performed for all users. If the list is preceded with a single "~" character, polyinstantiation is performed only for users in the list.

The method field can contain also following optional flags separated by : characters.

create=mode,owner,group - create the polyinstantiated directory. The mode, owner and group parameters are optional. The default for mode is determined by umask, the default owner is the user whose session is opened, the default group is the
primary group of the user.

iscript=path - path to the instance directory init script. The base directory for relative paths is /etc/security/namespace.d.

noinit - instance directory init script will not be executed.

shared - the instance directories for "context" and "level" methods will not contain the user name and will be shared among all users.

mntopts=value - value of this flag is passed to the mount call when the tmpfs mount is done. It allows for example the specification of the maximum size of the tmpfs instance that is created by the mount call. In addition to options specified in the tmpfs(5) manual the nosuid, noexec, and nodev flags can be used to respectively disable setuid bit effect, disable running executables, and disable devices to be interpreted on the mounted tmpfs filesystem.

The directory where polyinstantiated instances are to be created, must exist and must have, by default, the mode of 0000. The requirement that the instance parent be of mode 0000 can be
overridden with the command line option
ignore_instance_parent_mode

In case of context or level polyinstantiation the SELinux context which is used for polyinstantiation is the context used for executing a new process as obtained by getexeccon. This context must be set by the calling application or pam_selinux.so module. If this context is not set the polyinstatiation will be based just on user name.

The "instance differentiation string" is <user name> for "user" method and <user name>_<raw directory context> for "context" and "level" methods. If the whole string is too long the end of it is replaced with md5sum of itself. Also when command line option gen_hash is used the whole string is replaced with md5sum of itself.

6.22.3. OPTIONS

debug

A lot of debug information is logged using syslog

unmnt_remnt

For programs such as su and newrole, the login session has already setup a polyinstantiated namespace. For these programs, polyinstantiation is performed based
on new user id or security context, however the command first needs to undo the polyinstantiation performed by login. This argument instructs the command to first undo previous polyinstantiation before proceeding with new polyinstantiation based on new id/context

unmnt_only

For trusted programs that want to undo any existing bind mounts and process instance directories on their own, this argument allows them to unmount currently mounted instance directories

require_selinux

If selinux is not enabled, return failure

gen_hash

Instead of using the security context string for the instance name, generate and use its md5 hash.

ignore_config_error

If a line in the configuration file corresponding to a polyinstantiated directory contains format error, skip that line process the next line. Without this option, pam will return an error to the calling program resulting in termination of the session.

ignore_instance_parent_mode

Instance
parent directories by default are expected to have the restrictive mode of 000. Using this option, an administrator can choose to ignore the mode of the instance parent. This option should be used with caution as it will reduce security and isolation goals of the polyinstantiation mechanism.

unmount_on_close

Explicitly unmount the polyinstantiated directories instead of relying on automatic namespace destruction after the last process in a namespace exits. This option should be used only in case it is ensured by other means that there cannot be any processes running in the private namespace left after the session close. It is also useful only in case there are multiple pam session calls in sequence from the same process.

use_current_context

Useful for services which do not change the SELinux context with setexeccon call. The module will use the current SELinux context of the calling process for the level and context polyinstantiation.

use_default_context

Useful for services which do not use pam_selinux for changing the SELinux context with setexeccon call. The module will use the default SELinux context of the user for the level and context polyinstantiation.

mount_private

This option can be used on systems where the / mount point or its submounts are made shared (for example with a mount --make-rshared / command). The module will mark the whole directory tree so any mount and unmount operations in the polyinstantiation namespace are private. Normally the pam_namespace will try to detect the shared / mount point and make the polyinstantiated directories private automatically. This option has to be used just when only a subtree is shared and / is not.

Note that mounts and unmounts done in the private namespace will not affect the parent namespace if this option is used or when the shared / mount point is autodetected.

6.22.4. MODULE TYPES PROVIDED

Only
the session module type is provided. The module must not be called from multithreaded processes.

6.22.5. RETURN VALUES

PAM_SUCCESS

Namespace setup was successful.

PAM_SERVICE_ERR

Unexpected system error occurred while setting up namespace.

PAM_SESSION_ERR

Unexpected namespace configuration error occurred.

6.22.6. FILES

/etc/security/namespace.conf

Main configuration file

%vendordir%/security/namespace.conf

Default configuration file if /etc/security/namespace.conf does not exist.

/etc/security/namespace.d

Directory for additional configuration files

%vendordir%/security/namespace.d

Directory for additional vendor specific configuration files.

/etc/security/namespace.init

Init script for instance directories

%vendordir%/security/namespace.init

Vendor init script for instance directories if /etc/security/namespace.init does not exist.

6.22.7. EXAMPLES

These are some example lines which might be specified in /etc/security/namespace.conf.

```
# The following three lines will polyinstantiate /tmp,
# /var/tmp and user's home directories. /tmp and /var/tmp
# will be polyinstantiated based on the security level
# as well as user name, whereas home directory will be
# polyinstantiated based on the full security context and user name.
# Polyinstantiation will not be performed for user root
# and adm for directories /tmp and /var/tmp, whereas home
# directories will be polyinstantiated for all users.
#
# Note that instance directories do not have to reside inside
```

```
    # the polyinstantiated directory. In the examples below,
    # instances of /tmp will be created in /tmp-inst directory,
    # where as instances of /var/tmp and users home directories
    # will reside within the directories that are being
    # polyinstantiated.
    #
    /tmp     /tmp-inst/              level      root,adm
    /var/tmp /var/tmp/tmp-inst/    level      root,adm
    $HOME    $HOME/$USER.inst/inst- context
```

For the <service>s you need polyinstantiation (login for example) put the
following line in /etc/pam.d/<service> as the last line for session group:

session required pam_namespace.so [arguments]

This module also depends on pam_selinux.so setting the context.

6.22.8. AUTHORS

The namespace setup scheme was designed by Stephen Smalley, Janak Desai and
Chad Sellers. The pam_namespace PAM module was developed by Janak Desai
<janak@us.ibm.com>, Chad Sellers <csellers@tresys.com> and Steve Grubb
<sgrubb@redhat.com>. Additional improvements by Xavier Toth <txtoth@gmail.com>
and Tomas Mraz <tmraz@redhat.com>.

6.23. pam_nologin - prevent non-root users from login

pam_nologin.so [file=/path/nologin] [successok]

6.23.1. DESCRIPTION

pam_nologin is a PAM module that prevents users from logging into the system
when /var/run/nologin or /etc/nologin exists. The contents of the file are
displayed to the user. The pam_nologin module has
 no effect on the root user's
ability to log in.

6.23.2. OPTIONS

file=/path/nologin

  Use this file instead the default /var/run/nologin or /etc/nologin.

successok

  Return PAM_SUCCESS if no file exists, the default is PAM_IGNORE.

6.23.3. MODULE TYPES PROVIDED

The auth and account module types are provided.

6.23.4. RETURN VALUES

PAM_AUTH_ERR

The user is not root and /etc/nologin exists, so the user is not permitted to log in.

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

This is the default return value.

PAM_SUCCESS

Success: either the user is root or the nologin file does not exist.

PAM_USER_UNKNOWN

User not known to the underlying authentication module.

6.23.5. EXAMPLES

The suggested usage for /etc/pam.d/login is:

auth required pam_nologin.so

6.23.6. AUTHOR

pam_nologin was written by Michael K. Johnson <johnsonm@redhat.com>.

6.24. pam_permit - the promiscuous module

pam_permit.so

6.24.1. DESCRIPTION

pam_permit is a PAM module that
always permit access. It does nothing else.

In the case of authentication, the user's name will be set to nobody if the

application didn't set one. Many applications and PAM modules become confused if this name is unknown.

This module is very dangerous. It should be used with extreme caution.

6.24.2. OPTIONS

This module does not recognise any options.

6.24.3. MODULE TYPES PROVIDED

The auth, account, password and session module types are provided.

6.24.4. RETURN VALUES

PAM_SUCCESS

This module always returns this value.

6.24.5. EXAMPLES

Add this line to your other login entries to disable account management, but continue to permit users to log in.

account required pam_permit.so

6.24.6. AUTHOR

pam_permit was written by Andrew G. Morgan, <morgan@kernel.org>.

6.25. pam_pwhistory - grant access using .pwhistory file

pam_pwhistory.so [debug] [use_authtok] [enforce_for_root] [remember=N] [retry=N] [authtok_type=STRING] [file=/path/filename] [conf=/path/to/config-file
]

6.25.1. DESCRIPTION

This module saves the last passwords for each user in order to force password change history and keep the user from alternating between the same password too frequently.

This module does not work together with kerberos. In general, it does not make much sense to use this module in conjunction with NIS or LDAP, since the old passwords are stored on the local machine and are not available on another machine for password history checking.

6.25.2. OPTIONS

debug

Turns on debugging via syslog(3).

use_authtok

When password changing enforce the module to use the new password provided by a previously stacked password module (this is used in the example of the stacking of the pam_passwdqc module documented below).

enforce_for_root

If this option is set, the check is enforced for root, too.

remember=N

The last N passwords for each user are saved. The default is 10. Value of 0 makes the module to keep the existing contents
of the opasswd file
unchanged.

retry=N

Prompt user at most N times before returning with error. The default is 1.

authtok_type=STRING

See pam_get_authtok(3) for more details.

file=/path/filename

Store password history in file /path/filename rather than the default location. The default location is /etc/security/opasswd.

conf=/path/to/config-file

Use another configuration file instead of the default /etc/security/pwhistory.conf.

The options for configuring the module behavior are described in the pwhistory.conf(5) manual page. The options specified on the module command line override the values from the configuration file.

6.25.3. MODULE TYPES PROVIDED

Only the password module type is provided.

6.25.4. RETURN VALUES

PAM_AUTHTOK_ERR

No new password was entered, the user aborted password change or new password couldn't be set.

PAM_IGNORE

Password history was disabled.

PAM_MAXTRIES

Password was rejected too often.

PAM_USER_UNKNOWN

User is not known to system.

6.25.5. FILES

/etc/security/opasswd

Default file with password history

/etc/security/pwhistory.conf

Config file for pam_pwhistory options

%vendordir%/security/pwhistory.conf

Config file for pam_pwhistory options. It will be used if /etc/security/pwhistory.conf does not exist.

6.25.6. EXAMPLES

An example password section would be:

```
#%PAM-1.0
password    required      pam_pwhistory.so
password    required      pam_unix.so       use_authtok
```

In combination with pam_passwdqc:

#%PAM-1.0

```
password    required      pam_passwdqc.so    config=/etc/passwdqc.conf
password    required      pam_pwhistory.so   use_authtok
password    required      pam_unix.so        use_authtok
```

6.25.7. AUTHOR

pam_pwhistory was written by Thorsten Kukuk <kukuk@thkukuk.de>

6.26. pam_rhosts - grant access using .rhosts file

pam_rhosts.so

6.26.1. DESCRIPTION

This module performs the standard network authentication for services, as used by
traditional implementations of rlogin and rsh etc.

The authentication mechanism of this module is based on the contents of two files; /etc/hosts.equiv (or and ~/.rhosts. Firstly, hosts listed in the former file are treated as equivalent to the localhost. Secondly, entries in the user's own copy of the latter file is used to map "remote-host remote-user" pairs to that user's account on the current host. Access is granted to the user if their host is present in /etc/hosts.equiv and their remote account is identical to their local one, or if their remote account has an entry in their personal configuration file.

The module authenticates a remote user (internally specified by the item PAM_RUSER connecting from the remote host (internally specified by the item PAM_RHOST). Accordingly, for applications to be compatible this authentication module they must set these items prior to calling pam_authenticate(). The module is not capable of independently probing the network connection for such
information.

6.26.2. OPTIONS

debug

Print debug information.

silent

Don't print informative messages.

superuser=account

Handle account as root.

6.26.3. MODULE TYPES PROVIDED

Only the auth module type is provided.

6.26.4. RETURN VALUES

PAM_AUTH_ERR

The remote host, remote user name or the local user name couldn't be determined or access was denied by .rhosts file.

PAM_USER_UNKNOWN

User is not known to system.

6.26.5. EXAMPLES

To grant a remote user access by /etc/hosts.equiv or .rhosts for rsh add the following lines to /etc/pam.d/rsh:

```
#%PAM-1.0
#
auth    required      pam_rhosts.so
auth    required      pam_nologin.so
auth    required      pam_env.so
auth    required      pam_unix.so
```

6.26.6. AUTHOR

pam_rhosts was written by Thorsten Kukuk <kukuk@thkukuk.de>

6.27. pam_rootok - gain only root access

pam_rootok.so [debug]

6.27.1. DESCRIPTION

pam_rootok is a PAM module that authenticates the user if their UID is 0. Applications
that are created setuid-root generally retain the UID of the user
but run with the authority of an enhanced effective-UID. It is the real UID that is checked.

6.27.2. OPTIONS

debug

Print debug information.

6.27.3. MODULE TYPES PROVIDED

The auth, account and password module types are provided.

6.27.4. RETURN VALUES

PAM_SUCCESS

The UID is 0.

PAM_AUTH_ERR

The UID is not 0.

6.27.5. EXAMPLES

In the case of the su(1) application the historical usage is to permit the superuser to adopt the identity of a lesser user without the use of a password. To obtain this behavior with PAM the following pair of lines are needed for the corresponding entry in the /etc/pam.d/su configuration file:

```
# su authentication. Root is granted access by default.
auth  sufficient   pam_rootok.so
auth  required     pam_unix.so
```

6.27.6. AUTHOR

pam_rootok was written by Andrew G. Morgan, <morgan@kernel.org>.

6.28. pam_securetty - limit root login to special devices

pam_securetty.so [debug
]

6.28.1. DESCRIPTION

pam_securetty is a PAM module that allows root logins only if the user is logging in on a "secure" tty, as defined by the listing in the securetty file. pam_securetty checks at first, if /etc/securetty exists. If not and it was built with vendordir support, it will use %vendordir%/securetty. pam_securetty also checks that the securetty files are plain files and not world writable. It will also allow root logins on the tty specified with console= switch on the kernel command line and on ttys from the /sys/class/tty/console/active.

This module has no effect on non-root users and requires that the application fills in the PAM_TTY item correctly.

For canonical usage, should be listed as a required authentication method before any sufficient authentication methods.

6.28.2. OPTIONS

debug

Print debug information.

noconsole

Do not automatically allow root logins on the kernel console device, as specified on the kernel command line or by the sys file,
if it is not also
specified in the securetty file.

6.28.3. MODULE TYPES PROVIDED

Only the auth module type is provided.

6.28.4. RETURN VALUES

PAM_SUCCESS

The user is allowed to continue authentication. Either the user is not root, or the root user is trying to log in on an acceptable device.

PAM_AUTH_ERR

Authentication is rejected. Either root is attempting to log in via an unacceptable device, or the securetty file is world writable or not a normal file.

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

The conversation method supplied by the application failed to obtain the username.

PAM_INCOMPLETE

The conversation method supplied by the application returned PAM_CONV_AGAIN.

PAM_SERVICE_ERR

An error occurred while the module was determining the user's name or tty, or the module could not open the securetty file.

PAM_USER_UNKNOWN

The module could not find the user name in the /etc/passwd file to verify whether the
user had a UID of 0. Therefore, the results of running this module are ignored.

6.28.5. EXAMPLES

```
auth  required  pam_securetty.so
auth  required  pam_unix.so
```

6.28.6. AUTHOR

pam_securetty was written by Elliot Lee <sopwith@cuc.edu>.

6.29. pam_selinux - set the default security context

pam_selinux.so [open] [close] [restore] [nottys] [debug] [verbose] [select_context] [env_params] [use_current_range]

6.29.1. DESCRIPTION

pam_selinux is a PAM module that sets up the default SELinux security context for the next executed process.

When a new session is started, the open_session part of the module computes and sets up the execution security context used for the next execve(2) call, the file security context for the controlling terminal, and the security context used for creating a new kernel keyring.

When the session is ended, the close_session part of the module restores old security contexts that were in effect before the change made by the open_session part
of the module.

Adding pam_selinux into the PAM stack might disrupt behavior of other PAM modules which execute applications. To avoid that, pam_selinux.so open should be placed after such modules in the PAM stack, and pam_selinux.so close should

be placed before them. When such a placement is not feasible, pam_selinux.so restore could be used to temporary restore original security contexts.

6.29.2. OPTIONS

open

Only execute the open_session part of the module.

close

Only execute the close_session part of the module.

restore

In open_session part of the module, temporarily restore the security contexts as they were before the previous call of the module. Another call of this module without the restore option will set up the new security contexts again.

nottys

Do not setup security context of the controlling terminal.

debug

Turn on debug messages via syslog(3).

verbose

Attempt to inform the user when security context is set.

select_context

Attempt to ask the user for a custom security context role. If MLS is on, ask also for sensitivity level.

env_params

Attempt to obtain a custom security context role from PAM environment. If MLS is on, obtain also sensitivity level. This option and the select_context option are mutually exclusive. The respective PAM environment variables are SELINUX_ROLE_REQUESTED, SELINUX_LEVEL_REQUESTED, and SELINUX_USE_CURRENT_RANGE. The first two variables are self describing and the last one if set to 1 makes the PAM module behave as if the use_current_range was specified on the command line of the module.

use_current_range

Use the sensitivity level of the current process for the user context instead of the default level. Also suppresses asking of the sensitivity level from the user or obtaining it from PAM environment.

6.29.3. MODULE TYPES PROVIDED

Only the session module type is provided.

6.29.4. RETURN VALUES

PAM_SUCCESS

The security context was set successfully.

PAM_SESSION_ERR

Unable to get or set a valid context.

PAM_USER_UNKNOWN

The user is not known to the system.

PAM_BUF_ERR

Memory allocation error.

6.29.5. EXAMPLES

```
auth     required  pam_unix.so
session  required  pam_permit.so
session  optional  pam_selinux.so
```

6.29.6. AUTHOR

pam_selinux was written by Dan Walsh <dwalsh@redhat.com>.

6.30. pam_sepermit - allow/reject access based on SELinux mode

pam_sepermit.so [debug] [conf=/path/to/config/file]

6.30.1. DESCRIPTION

The pam_sepermit module allows or denies login depending on SELinux enforcement state.

When the user which is logging in matches an entry in the config file he is allowed access only when the SELinux is in enforcing mode. Otherwise he is denied access. For users not matching any entry in the config file the pam_sepermit module returns PAM_IGNORE return value.

The config file contains a list of user names one per line with optional arguments. If the name is prefixed
with @ character it means that all users in
the group name match. If it is prefixed with a % character the SELinux user is used to match against the name instead of the account name. Note that when SELinux is disabled the SELinux user assigned to the account cannot be determined. This means that such entries are never matched when SELinux is disabled and pam_sepermit will return PAM_IGNORE.

See sepermit.conf(5) for details.

If there is no explicitly specified configuration file and /etc/security/sepermit.conf does not exist, %vendordir%/security/sepermit.conf is used.

6.30.2. OPTIONS

debug

Turns on debugging via syslog(3).

conf=/path/to/config/file

Path to alternative config file overriding the default.

6.30.3. MODULE TYPES PROVIDED

The auth and account module types are provided.

6.30.4. RETURN VALUES

PAM_AUTH_ERR

SELinux is disabled or in the permissive mode and the user matches.

PAM_SUCCESS

SELinux is in the enforcing mode and the user matches.

PAM_IGNORE

The user does not match any entry in the config file.

PAM_USER_UNKNOWN

The module was unable to determine the user's name.

PAM_SERVICE_ERR

Error during reading or parsing the config file.

6.30.5. FILES

/etc/security/sepermit.conf

Default configuration file

6.30.6. EXAMPLES

```
auth     [success=done ignore=ignore default=bad] pam_sepermit.so
auth     required  pam_unix.so
account  required  pam_unix.so
session  required  pam_permit.so
```

6.30.7. AUTHOR

pam_sepermit and this manual page were written by Tomas Mraz <tmraz@redhat.com>.

6.31. pam_setquota - set or modify disk quotas on session start

pam_setquota.so [fs=/home] [overwrite=0] [debug=0] [startuid=1000] [enduid=0] [bsoftlimit=19000] [bhardlimit=20000] [isoftlimit=3000] [ihardlimit=4000]

6.31.1. DESCRIPTION

pam_setquota is a PAM module to set or modify a disk quota at session start

This makes quotas usable with central user databases, such as MySQL or LDAP.

6.31.2. OPTIONS

fs=/home

The device file or mountpoint the policy applies to. Defaults to the filesystem containing the users home directory.

overwrite=0

Overwrite an existing quota. Note: Enabling this will remove the ability

for the admin to manually configure different quotas for users for a filesystem with edquota(8). (Defaults to 0)

debug=0

Enable debugging. A value of 1 outputs the old and new quota on a device. A value of 2 also prints out the matched and found filesystems should fs be unset. (Defaults to 0)

startuid=1000

Describe the start of the UID range the policy is applied to. (Defaults to UID_MIN from login.defs or the uidmin value defined at compile-time if UID_MIN is undefined.)

enduid=0

Describe the end of the UID range the policy is applied to. Setting enduid= 0 results in an open-ended UID range (i.e. all uids greater than startuid are included). (Defaults to 0)

bsoftlimit=19000

Soft limit for disk quota blocks,
as defined by quotactl(2). Note:
bsoftlimit and bhardlimit must be set at the same time!

bhardlimit=20000

Hard limit for disk quota blocks, as defined by quotactl(2). Note: bsoftlimit and bhardlimit must be set at the same time!

isoftlimit=3000

Soft limit for inodes, as defined by quotactl(2). Note: isoftlimit and ihardlimit must be set at the same time!

ihardlimit=4000

Hard limit for inodes, as defined by quotactl(2). Note: isoftlimit and ihardlimit must be set at the same time!

6.31.3. MODULE TYPES PROVIDED

Only the session module type is provided.

6.31.4. RETURN VALUES

PAM_SUCCESS

The quota was set successfully.

PAM_IGNORE

No action was taken because either the UID of the user was outside of the specified range, a quota already existed and overwrite=1 was not configured or no limits were configured at all.

PAM_USER_UNKNOWN

The user was not found.

PAM_PERM_DENIED

/proc/mounts could not be opened.

The filesystem
or device specified was not found.

The limits for the user could not be retrieved. See syslog for more information.

The limits for the user could not be set. See syslog for more information.

Either isoftlimit/ihardlimit or bsoftlimit/bhardlimit were not set at the same time.

6.31.5. EXAMPLES

A single invocation of `pam_setquota` applies a specific policy to a UID range. Applying different policies to specific UID ranges is done by invoking pam_setquota more than once. The last matching entry defines the resulting quota.

session required pam_setquota.so bsoftlimit=1000 bhardlimit=2000 isoftlimit=1000 ihardlimit=2000 startuid=1000 enduid=0 fs=/home
session required pam_setquota.so bsoftlimit=19000 bhardlimit=20000 isoftlimit=3000 ihardlimit=4000 startuid=2001 enduid=3000 fs=/dev/sda1
session required pam_setquota.so bsoftlimit=19000 bhardlimit=20000 isoftlimit=3000 ihardlimit=4000 startuid=3001 enduid=4000 fs=/dev/sda1 overwrite=1

6.31.6.
AUTHOR

pam_setquota was originally written by Ruslan Savchenko <savrus@mexmat.net>.

Further modifications were made by Shane Tzen <shane@ict.usc.edu>, Sven Hartge <sven@svenhartge.de> and Keller Fuchs <kellerfuchs@hashbang.sh>.

6.32. pam_shells - check for valid login shell

pam_shells.so

6.32.1. DESCRIPTION

pam_shells is a PAM module that only allows access to the system if the user's shell is listed in /etc/shells.

If this file does not exist, entries are taken from files %vendordir%/shells, %vendordir%/shells.d/* and /etc/shells.d/* in that order.

It also checks if needed files (e.g. /etc/shells) are plain files and not world writable.

6.32.2. OPTIONS

This module does not recognise any options.

6.32.3. MODULE TYPES PROVIDED

The auth and account module types are provided.

6.32.4. RETURN VALUES

PAM_AUTH_ERR

Access to the system was denied.

PAM_SUCCESS

The user's login shell was listed as valid shell in /etc/shells.

PAM_SERVICE_ERR

The module was not
able to get the name of the user.

6.32.5. EXAMPLES

auth required pam_shells.so

6.32.6. AUTHOR

pam_shells was written by Erik Troan <ewt@redhat.com>.

6.33. pam_succeed_if - test account characteristics

pam_succeed_if.so [flag...] [condition...]

6.33.1. DESCRIPTION

pam_succeed_if.so is designed to succeed or fail authentication based on characteristics of the account belonging to the user being authenticated or values of other PAM items. One use is to select whether to load other modules based on this test.

The module should be given one or more conditions as module arguments, and authentication will succeed only if all of the conditions are met.

6.33.2. OPTIONS

The following flags are supported:

debug

Turns on debugging messages sent to syslog.

use_uid

Evaluate conditions using the account of the user whose UID the application is running under instead of the user being authenticated.

quiet

Don't log failure or success to the system log.

quiet_fail

Don't log failure to the system log.

quiet_success

Don't log success to the system log.

audit

Log unknown users to the system log.

Conditions are three words: a field, a test, and a value to test for.

Available fields are user, uid, gid, shell, home, ruser, rhost, tty and service
:

field < number

Field has a value numerically less than number.

field <= number

Field has a value numerically less than or equal to number.

field eq number

Field has a value numerically equal to number.

field >= number

Field has a value numerically greater than or equal to number.

field > number

Field has a value numerically greater than number.

field ne number

Field has a value numerically different from number.

field = string

Field exactly matches the given string.

field != string

Field does not match the given string.

field =~ glob

Field matches the given glob.

field !~ glob

Field does not match the given glob.

field in item:item:...

Field is contained in the list of items separated by colons.

field notin item:item:...

Field is not contained in the list of items separated by colons.

user ingroup group[:group:....]

User is in given group(s).

user notingroup group[:group:....]

User is not in given group(s).

user innetgr netgroup

(user,host) is in given netgroup.

user notinnetgr group

(user,host) is not in given netgroup.

6.33.3. MODULE TYPES PROVIDED

All module types (account, auth, password and session) are provided.

6.33.4. RETURN VALUES

PAM_SUCCESS

The condition was true.

PAM_AUTH_ERR

The condition was false.

PAM_SERVICE_ERR

A service error occurred or the arguments can't be parsed correctly.

6.33.5. EXAMPLES

To emulate the behaviour of pam_wheel, except there is no fallback to group 0
being only approximated by checking also the root group membership:

auth required pam_succeed_if.so quiet user ingroup wheel:root

Given that the type matches, only
loads the othermodule rule if the UID is over
500. Adjust the number after default to skip several rules.

type [default=1 success=ignore] pam_succeed_if.so quiet uid > 500
type required othermodule.so arguments...

6.33.6. AUTHOR

Nalin Dahyabhai <nalin@redhat.com>

6.34. pam_time - time controlled access

pam_time.so [conffile=conf-file] [debug] [noaudit]

6.34.1. DESCRIPTION

The pam_time PAM module does not authenticate the user, but instead it restricts access to a system and or specific applications at various times of the day and on specific days or over various terminal lines. This module can be configured to deny access to (individual) users based on their name, the time of day, the day of week, the service they are applying for and their terminal from which they are making their request.

By default rules for time/port access are taken from config file /etc/security/time.conf. An alternative file can be specified with the conffile option.

If there is no explicitly specified
configuration file and /etc/security/
time.conf does not exist, %vendordir%/security/time.conf is used.

If Linux PAM is compiled with audit support the module will report when it denies access.

6.34.2. DESCRIPTION

The pam_time PAM module does not authenticate the user, but instead it restricts access to a system and or specific applications at various times of the day and on specific days or over various terminal lines. This module can be configured to deny access to (individual) users based on their name, the time of day, the day of week, the service they are applying for and their terminal from which they are making their request.

For this module to function correctly there must be a correctly formatted /etc/security/time.conf file present. White spaces are ignored and lines maybe extended with '\' (escaped newlines). Text following a '#' is ignored to the end of the line.

The syntax of the lines is as follows:

services;ttys;users;times

In words, each rule occupies a
line, terminated with a newline or the beginning
of a comment; a '#'. It contains four fields separated with semicolons, ';'.

The first field, the services field, is a logic list of PAM service names that
the rule applies to.

The second field, the tty field, is a logic list of terminal names that this
rule applies to.

The third field, the users field, is a logic list of users or a netgroup of
users to whom this rule applies.

A logic list namely means individual tokens that are optionally prefixed with
'!' (logical not) and separated with '&' (logical and) and '|' (logical or).

For these items the simple wildcard '*' may be used only once. With netgroups
no wildcards or logic operators are allowed.

The times field is used to indicate the times at which this rule applies. The
format here is a logic list of day/time-range entries. The days are specified
by a sequence of two character entries, MoTuSa for example is Monday Tuesday
and Saturday. Note that repeated days are unset MoMo
= no day, and MoWk = all
weekdays bar Monday. The two character combinations accepted are Mo Tu We Th Fr
Sa Su Wk Wd Al, the last two being week-end days and all 7 days of the week
respectively. As a final example, AlFr means all days except Friday.

Each day/time-range can be prefixed with a '!' to indicate "anything but". The
time-range part is two 24-hour times HHMM, separated by a hyphen, indicating
the start and finish time (if the finish time is smaller than the start time it
is deemed to apply on the following day).

For a rule to be active, ALL of service+ttys+users must be satisfied by the
applying process.

Note, currently there is no daemon enforcing the end of a session. This needs
to be remedied.

Poorly formatted rules are logged as errors using syslog(3).

6.34.3. OPTIONS

conffile=/path/to/time.conf

Indicate an alternative time.conf style configuration file to override the

default.

debug

Some debug information is printed with syslog(3).

noaudit

Do not
report logins at disallowed time to the audit subsystem.

6.34.4. MODULE TYPES PROVIDED

Only the account type is provided.

6.34.5. RETURN VALUES

PAM_SUCCESS

Access was granted.

PAM_ABORT

Not all relevant data could be gotten.

PAM_BUF_ERR

Memory buffer error.

PAM_PERM_DENIED

Access was not granted.

PAM_USER_UNKNOWN

The user is not known to the system.

6.34.6. FILES

/etc/security/time.conf

Default configuration file

6.34.7. EXAMPLES

These are some example lines which might be specified in /etc/security/
time.conf.

All users except for root are denied access to console-login at all times:

login ; tty* & !ttyp* ; !root ; !Al0000-2400

Games (configured to use PAM) are only to be accessed out of working hours.
This rule does not apply to the user waster:

games ; * ; !waster ; Wd0000-2400 | Wk1800-0800

6.34.8. AUTHOR

pam_time was written by Andrew G. Morgan <morgan@kernel.org>.

6.35. pam_timestamp - authenticate using cached successful authentication attempts

pam_timestamp.so
[timestampdir=directory] [timestamp_timeout=number] [
verbose] [debug]

6.35.1. DESCRIPTION

In a nutshell, pam_timestamp caches successful authentication attempts, and allows you to use a recent successful attempt as the basis for authentication. This is similar mechanism which is used in sudo.

When an application opens a session using pam_timestamp, a timestamp file is created in the timestampdir directory for the user. When an application attempts to authenticate the user, a pam_timestamp will treat a sufficiently recent timestamp file as grounds for succeeding.

The default encryption hash is taken from the HMAC_CRYPTO_ALGO variable from /etc/login.defs.

6.35.2. OPTIONS

timestampdir=directory

Specify an alternate directory where pam_timestamp creates timestamp files.

timestamp_timeout=number

How long should pam_timestamp treat timestamp as valid after their last modification date (in seconds). Default is 300 seconds.

verbose

Attempt to inform the user when access is granted.

debug

Turns on debugging messages sent to syslog(3).

6.35.3. MODULE TYPES PROVIDED

The auth and session module types are provided.

6.35.4. RETURN VALUES

PAM_AUTH_ERR

The module was not able to retrieve the user name or no valid timestamp file was found.

PAM_SUCCESS

Everything was successful.

PAM_SESSION_ERR

Timestamp file could not be created or updated.

6.35.5. NOTES

Users can get confused when they are not always asked for passwords when running a given program. Some users reflexively begin typing information before noticing that it is not being asked for.

6.35.6. EXAMPLES

```
auth sufficient pam_timestamp.so verbose
auth required   pam_unix.so

session required pam_unix.so
session optional pam_timestamp.so
```

6.35.7. FILES

/var/run/pam_timestamp/...

timestamp files and directories

6.35.8. AUTHOR

pam_timestamp was written by Nalin Dahyabhai.

6.36. pam_tty_audit - enable/disable tty auditing

pam_tty_audit.so [disable=patterns] [enable=patterns]

6.36.1. DESCRIPTION

The pam_tty_audit PAM module is used to enable or disable TTY auditing. By default, the kernel does not audit input on any TTY.

6.36.2. OPTIONS

disable=patterns

For each user matching patterns, disable TTY auditing. This overrides any previous enable option matching the same user name on the command line. See NOTES for further description of patterns.

enable=patterns

For each user matching patterns, enable TTY auditing. This overrides any previous disable option matching the same user name on the command line. See NOTES for further description of patterns.

open_only

Set the TTY audit flag when opening the session, but do not restore it when closing the session. Using this option is necessary for some services that don't fork() to run the authenticated session, such as sudo.

log_passwd

Log keystrokes when ECHO mode is off but ICANON mode is active. This is the mode in which the tty is placed during password entry. By default, passwords are not logged. This option may not be available on older kernels (3.9?).

6.36.3. MODULE TYPES PROVIDED

Only the session type is supported.

6.36.4. RETURN VALUES

PAM_SESSION_ERR

Error reading or modifying the TTY audit flag. See the system log for more details.

PAM_SUCCESS

Success.

6.36.5. NOTES

When TTY auditing is enabled, it is inherited by all processes started by that user. In particular, daemons restarted by a user will still have TTY auditing enabled, and audit TTY input even by other users unless auditing for these users is explicitly disabled. Therefore, it is recommended to use disable=* as the first option for most daemons using PAM.

To view the data that was logged by the kernel to audit use the command aureport --tty.

The patterns are comma separated lists of glob patterns or ranges of uids. A range is specified as min_uid:max_uid where one of these values
can be empty.
If min_uid is empty only user with the uid max_uid will be matched. If max_uid is empty users with the uid greater than or equal to min_uid will be matched.

Please note that passwords in some circumstances may be logged by TTY auditing even if the log_passwd is not used. For example, all input to an ssh session will be logged - even if there is a password being typed into some software running at the remote host because only the local TTY state affects the local TTY auditing.

6.36.6. EXAMPLES

Audit all administrative actions.

session required pam_tty_audit.so disable=* enable=root

6.36.7. AUTHOR

pam_tty_audit was written by Miloslav Trma <mitr@redhat.com>. The log_passwd option was added by Richard Guy Briggs <rgb@redhat.com>.

6.37. pam_umask - set the file mode creation mask

pam_umask.so [debug] [silent] [usergroups] [nousergroups] [umask=mask]

6.37.1. DESCRIPTION

pam_umask is a PAM module to set the file mode creation mask of the current environment.
The umask affects the default permissions assigned to newly created files.

The PAM module tries to get the umask value from the following places in the following order:

- umask= entry in the user's GECOS field
- umask= argument
- UMASK entry from /etc/login.defs
- UMASK= entry from /etc/default/login

The GECOS field is split on comma ',' characters. The module also in addition to the umask= entry recognizes pri= entry, which sets the nice priority value for the session, and ulimit= entry, which sets the maximum size of files the processes in the session can create.

6.37.2. OPTIONS

debug

Print debug information.

silent

Don't print informative messages.

usergroups

If the user is not root and the username is the same as primary group name, the umask group bits are set to be the same as owner bits (examples: 022 -> 002, 077 -> 007).

nousergroups

This is the direct opposite of the usergroups option described above, which can be useful
in case pam_umask has been compiled with usergroups enabled by default and you want to disable it at runtime.

umask=mask

Sets the calling process's file mode creation mask (umask) to mask & 0777. The value is interpreted as Octal.

6.37.3. MODULE TYPES PROVIDED

Only the session type is provided.

6.37.4. RETURN VALUES

PAM_SUCCESS

The new umask was set successfully.

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

The conversation method supplied by the application failed to obtain the username.

PAM_INCOMPLETE

The conversation method supplied by the application returned PAM_CONV_AGAIN.

PAM_SERVICE_ERR

No username was given.

PAM_USER_UNKNOWN

User not known.

6.37.5. EXAMPLES

Add the following line to /etc/pam.d/login to set the user specific umask at login:

```
session optional pam_umask.so umask=0022
```

6.37.6. AUTHOR

pam_umask was written by Thorsten Kukuk <kukuk@thkukuk.de>.

6.38. pam_unix - traditional password authentication

pam_unix.so
[...]

6.38.1. DESCRIPTION

This is the standard Unix authentication module. It uses standard calls from the system's libraries to retrieve and set account information as well as authentication. Usually this is obtained from the /etc/passwd and the /etc/shadow file as well if shadow is enabled.

The account component performs the task of establishing the status of the user's account and password based on the following shadow elements: expire, last_change, max_change, min_change, warn_change. In the case of the latter, it may offer advice to the user on changing their password or, through the PAM_AUTHTOKEN_REQD return, delay giving service to the user until they have established a new password. The entries listed above are documented in the shadow(5) manual page. Should the user's record not contain one or more of these entries, the corresponding shadow check is not performed.

The authentication component performs the task of checking the users credentials (password).
The default action of this module is to not permit the user access to a service if their official password is blank.

A helper binary, unix_chkpwd(8), is provided to check the user's password when it is stored in a read protected database. This binary is very simple and will only check the password of the user invoking it. It is called transparently on behalf of the user by the authenticating component of this module. In this way it is possible for applications like xlock(1) to work without being setuid-root. The module, by default, will temporarily turn off SIGCHLD handling for the duration of execution of the helper binary. This is generally the right thing to do, as many applications are not prepared to handle this signal from a child they didn't know was fork()d. The noreap module argument can be used to suppress this temporary shielding and may be needed for use with certain applications.

The maximum length of a password supported by the pam_unix module via the helper binary
is PAM_MAX_RESP_SIZE - currently 512 bytes. The rest of the password provided by the conversation function to the module will be ignored.

The password component of this module performs the task of updating the user's password. The default encryption hash is taken from the ENCRYPT_METHOD variable from /etc/login.defs

The session component of this module logs when a user logins or leave the system.

Remaining arguments, supported by others functions of this module, are silently ignored. Other arguments are logged as errors through syslog(3).

6.38.2. OPTIONS

debug

Turns on debugging via syslog(3).

audit

A little more extreme than debug.

quiet

Turns off informational messages namely messages about session open and close via syslog(3).

nullok

The default action of this module is to not permit the user access to a service if their official password is blank. The nullok argument overrides this default.

nullresetok

Allow users to authenticate
with blank password if password reset is
enforced even if nullok is not set. If password reset is not required and nullok is not set the authentication with blank password will be denied.

try_first_pass

Before prompting the user for their password, the module first tries the previous stacked module's password in case that satisfies this module as well.

use_first_pass

The argument use_first_pass forces the module to use a previous stacked modules password and will never prompt the user - if no password is available or the password is not appropriate, the user will be denied access.

nodelay

This argument can be used to discourage the authentication component from

requesting a delay should the authentication as a whole fail. The default action is for the module to request a delay-on-failure of the order of two second.

use_authtok

When password changing enforce the module to set the new password to the one provided by a previously
stacked password module (this is used in the
example of the stacking of the pam_passwdqc module documented below).

authtok_type=type

This argument can be used to modify the password prompt when changing passwords to include the type of the password. Empty by default.

nis

NIS RPC is used for setting new passwords.

remember=n

The last n passwords for each user are saved in /etc/security/opasswd in order to force password change history and keep the user from alternating between the same password too frequently. The MD5 password hash algorithm is used for storing the old passwords. Instead of this option the pam_pwhistory module should be used.

shadow

Try to maintain a shadow based system.

md5

When a user changes their password next, encrypt it with the MD5 algorithm.

bigcrypt

When a user changes their password next, encrypt it with the DEC C2 algorithm.

sha256

When a user changes their password next, encrypt
it with the SHA256
algorithm. The SHA256 algorithm must be supported by the crypt(3) function.

sha512

When a user changes their password next, encrypt it with the SHA512 algorithm. The SHA512 algorithm must be supported by the crypt(3) function.

blowfish

When a user changes their password next, encrypt it with the blowfish algorithm. The blowfish algorithm must be supported by the crypt(3) function.

gost_yescrypt

When a user changes their password next, encrypt it with the gost-yescrypt algorithm. The gost-yescrypt algorithm must be supported by the crypt(3) function.

yescrypt

When a user changes their password next, encrypt it with the yescrypt algorithm. The yescrypt algorithm must be supported by the crypt(3) function.

rounds=n

Set the optional number of rounds of the SHA256, SHA512, blowfish, gost-yescrypt, and yescrypt password hashing algorithms to n.

broken_shadow

Ignore errors reading shadow information for
users in the account
management module.

minlen=n

Set a minimum password length of n characters. The max. for DES crypt based passwords are 8 characters.

no_pass_expiry

When set ignore password expiration as defined by the shadow entry of the user. The option has an effect only in case pam_unix was not used for the authentication or it returned authentication failure meaning that other authentication source or method succeeded. The example can be public key authentication in sshd. The module will return PAM_SUCCESS instead of eventual PAM_NEW_AUTHTOK_REQD or PAM_AUTHTOK_EXPIRED.

Invalid arguments are logged with syslog(3).

6.38.3. MODULE TYPES PROVIDED

All module types (account, auth, password and session) are provided.

6.38.4. RETURN VALUES

PAM_IGNORE

Ignore this module.

6.38.5. EXAMPLES

An example usage for /etc/pam.d/login would be:

```
# Authenticate the user
auth       required   pam_unix.so
# Ensure users account and password are still
 active
account    required   pam_unix.so
# Change the user's password, but at first check the strength
# with pam_passwdqc(8)
password   required   pam_passwdqc.so config=/etc/passwdqc.conf
password   required   pam_unix.so use_authtok nullok yescrypt
session    required   pam_unix.so
```

6.38.6. AUTHOR

pam_unix was written by various people.

6.39. pam_userdb - authenticate against a db database

pam_userdb.so db=/path/database [debug] [crypt=[crypt|none]] [icase] [dump] [try_first_pass] [use_first_pass] [unknown_ok] [key_only]

6.39.1. DESCRIPTION

The pam_userdb module is used to verify a username/password pair against values stored in a Berkeley DB database. The database is indexed by the username, and the data fields corresponding to the username keys are the passwords.

6.39.2. OPTIONS

crypt=[crypt|none]

Indicates whether encrypted or plaintext passwords are stored in the database. If it is crypt, passwords should be stored in the database in

crypt(3)
form. If none is selected, passwords should be stored in the
database as plaintext.

db=/path/database

Use the /path/database database for performing lookup. There is no default;
the module will return PAM_IGNORE if no database is provided. Note that the
path to the database file should be specified without the .db suffix.

debug

Print debug information. Note that password hashes, both from db and
computed, will be printed to syslog.

dump

Dump all the entries in the database to the log. Don't do this by default!

icase

Make the password verification to be case insensitive (ie when working with
registration numbers and such). Only works with plaintext password storage.

try_first_pass

Use the authentication token previously obtained by another module that did
the conversation with the application. If this token can not be obtained
then the module will try to converse. This option can be used for stacking
different modules
that need to deal with the authentication tokens.

use_first_pass

Use the authentication token previously obtained by another module that did
the conversation with the application. If this token can not be obtained
then the module will fail. This option can be used for stacking different
modules that need to deal with the authentication tokens.

unknown_ok

Do not return error when checking for a user that is not in the database.
This can be used to stack more than one pam_userdb module that will check a
username/password pair in more than a database.

key_only

The username and password are concatenated together in the database hash as

'username-password' with a random value. if the concatenation of the username and password with a dash in the middle returns any result, the user is valid. this is useful in cases where the username may not be unique but the username and password pair are.

6.39.3. MODULE TYPES PROVIDED

The auth and account
module types are provided.

6.39.4. RETURN VALUES

PAM_AUTH_ERR

Authentication failure.

PAM_AUTHTOK_RECOVERY_ERR

Authentication information cannot be recovered.

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

Conversation failure.

PAM_SERVICE_ERR

Error in service module.

PAM_SUCCESS

Success.

PAM_USER_UNKNOWN

User not known to the underlying authentication module.

6.39.5. EXAMPLES

auth sufficient pam_userdb.so icase db=/etc/dbtest

6.39.6. AUTHOR

pam_userdb was written by Cristian Gafton >gafton@redhat.com<.

6.40. pam_warn - logs all PAM items

pam_warn.so

6.40.1. DESCRIPTION

pam_warn is a PAM module that logs the service, terminal, user, remote user and remote host to syslog(3). The items are not probed for, but instead obtained from the standard PAM items. The module always returns PAM_IGNORE, indicating that it does not want to affect the authentication process.

6.40.2. OPTIONS

This module does not recognise any options.

6.40.3. MODULE
TYPES PROVIDED

The auth, account, password and session module types are provided.

6.40.4. RETURN VALUES

PAM_IGNORE

This module always returns PAM_IGNORE.

6.40.5. EXAMPLES

```
#%PAM-1.0
#
# If we don't have config entries for a service, the
# OTHER entries are used. To be secure, warn and deny
# access to everything.
other auth     required       pam_warn.so
other auth     required       pam_deny.so
other account  required       pam_warn.so
other account  required       pam_deny.so
other password required       pam_warn.so
other password required       pam_deny.so
other session  required       pam_warn.so
other session  required       pam_deny.so
```

6.40.6. AUTHOR

pam_warn was written by Andrew G. Morgan <morgan@kernel.org>.

6.41. pam_wheel - only permit root access to members of group wheel

pam_wheel.so [debug] [deny] [group=name] [root_only] [trust] [
use_uid]

6.41.1. DESCRIPTION

The pam_wheel PAM module is used to enforce the so-called wheel group. By
default
it permits access to the target user if the applicant user is a member
of the wheel group. If no group with this name exist, the module is using the
group with the group-ID 0.

6.41.2. OPTIONS

debug

Print debug information.

deny

Reverse the sense of the auth operation: if the user is trying to get UID 0
access and is a member of the wheel group (or the group of the group
option), deny access. Conversely, if the user is not in the group, return
PAM_IGNORE (unless trust was also specified, in which case we return
PAM_SUCCESS).

group=name

Instead of checking the wheel or GID 0 groups, use the name group to
perform the authentication.

root_only

The check for wheel membership is done only when the target user UID is 0.

trust

The pam_wheel module will return PAM_SUCCESS instead of PAM_IGNORE if the
user is a member of the wheel group (thus with a little play stacking the
modules the wheel members may be able to su to root without being
prompted
for a passwd).

use_uid

The check will be done against the real uid of the calling process, instead
of trying to obtain the user from the login session associated with the

terminal in use.

6.41.3. MODULE TYPES PROVIDED

The auth and account module types are provided.

6.41.4. RETURN VALUES

PAM_AUTH_ERR

Authentication failure.

PAM_BUF_ERR

Memory buffer error.

PAM_IGNORE

The return value should be ignored by PAM dispatch.

PAM_PERM_DENY

Permission denied.

PAM_SERVICE_ERR

Cannot determine the user name.

PAM_SUCCESS

Success.

PAM_USER_UNKNOWN

User not known.

6.41.5. EXAMPLES

The root account gains access by default (rootok), only wheel members can become root (wheel) but Unix authenticate non-root applicants.

```
su      auth    sufficient      pam_rootok.so
su      auth    required        pam_wheel.so
su      auth    required        pam_unix.so
```

6.41.6. AUTHOR

pam_wheel was written by Cristian Gafton <gafton@redhat.com>.

6.42.
pam_xauth - forward xauth keys between users

pam_xauth.so [debug] [xauthpath=/path/to/xauth] [systemuser=UID] [targetuser=UID]

6.42.1. DESCRIPTION

The pam_xauth PAM module is designed to forward xauth keys (sometimes referred to as "cookies") between users.

Without pam_xauth, when xauth is enabled and a user uses the su(1) command to assume another user's privileges, that user is no longer able to access the original user's X display because the new user does not have the key needed to access the display. pam_xauth solves the problem by forwarding the key from the user running su (the source user) to the user whose identity the source user is assuming (the target user) when the session is created, and destroying the key when the session is torn down.

This means, for example, that when you run su(1) from an xterm session, you will be able to run X programs without explicitly dealing with the xauth(1) xauth command or ~/.Xauthority files.

pam_xauth will only forward
keys if xauth can list a key connected to the
$DISPLAY environment variable.

Primitive access control is provided by ~/.xauth/export in the invoking user's home directory and ~/.xauth/import in the target user's home directory.

If a user has a ~/.xauth/import file, the user will only receive cookies from users listed in the file. If there is no ~/.xauth/import file, the user will accept cookies from any other user.

If a user has a .xauth/export file, the user will only forward cookies to users listed in the file. If there is no ~/.xauth/export file, and the invoking user is not root, the user will forward cookies to any other user. If there is no ~/.xauth/export file, and the invoking user is root, the user will not forward cookies to other users.

Both the import and export files support wildcards (such as *). Both the import and export files can be empty, signifying that no users are allowed.

6.42.2. OPTIONS

debug

Print debug information.

xauthpath=/path/to/xauth

Specify the path the xauth program (it is expected in /usr/X11R6/bin/xauth, /usr/bin/xauth, or /usr/bin/X11/xauth by default).

systemuser=UID

Specify the highest UID which will be assumed to belong to a "system" user. pam_xauth will refuse to forward credentials to users with UID less than or equal to this number, except for root and the "targetuser", if specified.

targetuser=UID

Specify a single target UID which is exempt from the systemuser check.

6.42.3. MODULE TYPES PROVIDED

Only the session type is provided.

6.42.4. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_PERM_DENIED

Permission denied by import/export file.

PAM_SESSION_ERR

Cannot determine user name, UID or access users home directory.

PAM_SUCCESS

Success.

PAM_USER_UNKNOWN

User not known.

6.42.5. EXAMPLES

Add the following line to /etc/pam.d/su to forward xauth keys between users

when calling su:

session optional pam_xauth.so

6.42.6. AUTHOR

pam_xauth was
 written by Nalin Dahyabhai <nalin@redhat.com>, based on original
version by Michael K. Johnson <johnsonm@redhat.com>.

Chapter 7. See also

- The Linux-PAM Application Writers' Guide.
- The Linux-PAM Module Writers' Guide.
- The V. Samar and R. Schemers (SunSoft), ``UNIFIED LOGIN WITH PLUGGABLE AUTHENTICATION MODULES", Open Software Foundation Request For Comments 86.0, October 1995.

Chapter 8. Author/acknowledgments

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Chapter 9. Copyright information for this document

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The Linux-PAM Module Writers' Guide

Andrew G. Morgan

<morgan@kernel.org>

Thorsten Kukuk

<kukuk@thkukuk.de>

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Abstract

This manual documents what a programmer needs to know in order to write a module that conforms to the Linux-PAM standard.It also discusses some security issues from the point of view of the module programmer.

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Chapter 1. Introduction

1.1. Description

Linux-PAM (Pluggable Authentication Modules for Linux) is a library that enables the local system administrator to choose how individual applications authenticate users. For an overview of the Linux-PAM library see the Linux-PAM System Administrators' Guide.

A Linux-PAM module is a single executable binary file that can be loaded by the Linux-PAM interface library. This PAM library is configured locally with a system file, /etc/pam.conf, to authenticate a user request via the locally available authentication modules. The modules themselves will usually be located in the directory /lib/security (or /lib64/security, depending on the architecture) and take the form of dynamically loadable object

files (see
dlopen(3). Alternatively, the modules can be statically linked into the
Linux-PAM library; this is mostly to allow Linux-PAM to be used on platforms
without dynamic linking available, but this is a deprecated functionality. It
is the Linux-PAM interface that is called by an application and it is the
responsibility of the library to locate, load and call the appropriate
functions in a Linux-PAM-module.

Except for the immediate purpose of interacting with the user (entering a
password etc..) the module should never call the application directly. This
exception requires a "conversation mechanism" which is documented below.

1.2. Synopsis

```
#include <security/pam_modules.h>

gcc -fPIC -c pam_module.c
gcc -shared -o pam_module.so pam_module.o -lpam
```

Chapter 2. What can be expected by the module

Here we list the interface that the conventions that all Linux-PAM modules must
adhere to.

2.1. Getting and setting PAM_ITEMs and data

First, we cover what the module should expect
from the Linux-PAM library and a
Linux-PAM aware application. Essentially this is the libpam.* library.

2.1.1. Set module internal data

```
#include <security/pam_modules.h>

int pam_set_data pamh,
(
                module_data_name,
                data,
                (*cleanup)(pam_handle_t *pamh, void *data, int
               error_status));

pam_handle_t *pamh;
const char *module_data_name;
void *data;
void (*cleanup)(pam_handle_t *pamh, void *data, int error_status);
```

2.1.1.1. DESCRIPTION

The pam_set_data function associates a pointer to an object with the (hopefully) unique string module_data_name in the PAM context specified by the pamh argument.

PAM modules may be dynamically loadable objects. In general such files should not contain static variables. This function and its counterpart pam_get_data(3) , provide a mechanism for a module to associate some data with the handle pamh. Typically a module will call the pam_set_data function to register some data under a (hopefully) unique module_data_name. The data is available for use by other modules too but not by an application. Since this functions stores only a pointer to the data, the module should not modify or free the content of it.

The function cleanup() is associated with the data and, if non-NULL, it is called when this data is over-written or following a call to pam_end(3).

The error_status argument is used to indicate to the module the sort of action it is to take in cleaning this data item. As an example, Kerberos creates a ticket file during the authentication phase, this file might be associated with a data item. When pam_end(3) is called by the module, the error_status carries the return value of the pam_authenticate(3) or other libpam function as appropriate. Based on this value the Kerberos module may choose to delete the ticket file (authentication failure) or leave it in place.

The error_status may have been logically OR'd with either of the following two values:

PAM_DATA_REPLACE

When a data item is being replaced (through a second call to pam_set_data) this mask is used. Otherwise, the call is assumed to be from pam_end(3).

PAM_DATA_SILENT

Which indicates that the process would prefer to perform the cleanup() quietly. That is, discourages logging/messages to the user. It is generally used to indicate that the current closing of the library is in a fork(2)ed process, and that the parent will take care of cleaning up things that exist outside of the current process space (files etc.).

2.1.1.2. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

Data was successful stored.

PAM_SYSTEM_ERR

A NULL pointer was submitted as PAM handle or the function was called by an application.

2.1.2. Get module internal data

```
#include <security/pam_modules.h>

int
 pam_get_data( pamh,
              module_data_name,
              data);

const pam_handle_t *pamh;
const char *module_data_name;
const void **data;
```

2.1.2.1. DESCRIPTION

This function together with the pam_set_data(3) function is useful to manage module-specific data meaningful only to the calling PAM module.

The pam_get_data function looks up the object associated with the (hopefully) unique string module_data_name in the PAM context specified by the pamh argument. A successful call to pam_get_data will result in data pointing to the object. Note, this data is not a copy and should be treated as constant by the module.

2.1.2.2. RETURN VALUES

PAM_SUCCESS

Data was successful retrieved.

PAM_SYSTEM_ERR

A NULL pointer was submitted as PAM handle or the function was called by an application.

PAM_NO_MODULE_DATA

Module data not found or there is an entry, but it has the value NULL.

2.1.3. Setting PAM items

```
#include
 <security/pam_modules.h>

int pam_set_item(  pamh,
                item_type,
                item);

pam_handle_t *pamh;
int item_type;
const void *item;
```

2.1.3.1. DESCRIPTION

The pam_set_item function allows applications and PAM service modules to access and to update PAM information of item_type. For this a copy of the object pointed to by the item argument is created. The following item_types are supported:

PAM_SERVICE

The service name (which identifies that PAM stack that the PAM functions will use to authenticate the program).

PAM_USER

The username of the entity under whose identity service will be given. That is, following authentication, PAM_USER identifies the local entity that gets to use the service. Note, this value can be mapped from something (eg., "anonymous") to something else (eg. "guest119") by any module in the PAM stack. As such an application should consult the value of PAM_USER after each call
to a PAM function.

PAM_USER_PROMPT

The string used when prompting for a user's name. The default value for this string is a localized version of "login: ".

PAM_TTY

The terminal name prefixed by /dev/ for device files. In the past, graphical X-based applications used to store the $DISPLAY variable here, but with the introduction of PAM_XDISPLAY this usage is deprecated.

PAM_RUSER

The requesting user name: local name for a locally requesting user or a remote user name for a remote requesting user.

Generally an application or module will attempt to supply the value that is most strongly authenticated (a local account before a remote one. The level of trust in this value is embodied in the actual authentication stack associated with the application, so it is ultimately at the discretion of the system administrator.

PAM_RUSER@PAM_RHOST should always identify the requesting user. In some cases, PAM_RUSER may be NULL. In such situations, it is unclear who the requesting entity is.

PAM_RHOST

The requesting hostname (the hostname of the machine from which the PAM_RUSER entity is requesting service). That is PAM_RUSER@PAM_RHOST does identify the requesting user. In some applications, PAM_RHOST may be NULL. In such situations, it is unclear where the authentication request is originating from.

PAM_AUTHTOK

The authentication token (often a password). This token should be ignored by all module functions besides pam_sm_authenticate(3) and pam_sm_chauthtok (3). In the former function it is used to pass the most recent authentication token from one stacked module to another. In the latter function the token is used for another purpose. It contains the currently active authentication token.

PAM_OLDAUTHTOK

The old authentication token. This token should be ignored by all module functions except pam_sm_chauthtok(3).

PAM_CONV

The pam_conv structure. See pam_conv(3).

The following additional items are specific to Linux-PAM and should not be used in portable applications:

PAM_FAIL_DELAY

A function pointer to redirect centrally managed failure delays. See pam_fail_delay(3).

PAM_XDISPLAY

The name of the X display. For graphical, X-based applications the value for this item should be the $DISPLAY variable. This value may be used independently of PAM_TTY for passing the name of the display.

PAM_XAUTHDATA

A pointer to a structure containing the X authentication data required to make a connection to the display specified by PAM_XDISPLAY, if such information is necessary. See pam_xauth_data(3).

PAM_AUTHTOK_TYPE

The default action is for the module to use the following prompts when requesting passwords: "New UNIX password: " and "Retype UNIX password: ". The example word UNIX can be replaced with this item, by default it is empty. This item is used by pam_get_authtok(3).

For all item_types,
other than PAM_CONV and PAM_FAIL_DELAY, item is a pointer
to a <NUL> terminated character string. In the case of PAM_CONV, item points to an initialized pam_conv structure. In the case of PAM_FAIL_DELAY, item is a function pointer: void (*delay_fn)(int retval, unsigned usec_delay, void *appdata_ptr)

Both, PAM_AUTHTOK and PAM_OLDAUTHTOK, will be reset before returning to the application. Which means an application is not able to access the authentication tokens.

2.1.3.2. RETURN VALUES

PAM_BAD_ITEM

The application attempted to set an undefined or inaccessible item.

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

Data was successful updated.

PAM_SYSTEM_ERR

The pam_handle_t passed as first argument was invalid.

2.1.4. Getting PAM items

```
#include <security/pam_modules.h>

int pam_get_item(  pamh,
                   item_type,
                   item);

const pam_handle_t *pamh;
int item_type;
const void **item;
```

2.1.4.1. DESCRIPTION

The pam_get_item
function allows applications and PAM service modules to access
and retrieve PAM information of item_type. Upon successful return, item
contains a pointer to the value of the corresponding item. Note, this is a
pointer to the actual data and should not be free()'ed or over-written! The
following values are supported for item_type:

PAM_SERVICE

The service name (which identifies that PAM stack that the PAM functions
will use to authenticate the program).

PAM_USER

The username of the entity under whose identity service will be given. That
is, following authentication, PAM_USER identifies the local entity that
gets to use the service. Note, this value can be mapped from something
(eg., "anonymous") to something else (eg. "guest119") by any module in the
PAM stack. As such an application should consult the value of PAM_USER
after each call to a PAM function.

PAM_USER_PROMPT

The string used when prompting for a user's name. The default value for
this string is a localized version of "login: ".

PAM_TTY

The terminal name prefixed by /dev/ for device files. In the past,

graphical X-based applications used to store the $DISPLAY variable here, but with the introduction of PAM_XDISPLAY this usage is deprecated.

PAM_RUSER

The requesting user name: local name for a locally requesting user or a remote user name for a remote requesting user.

Generally an application or module will attempt to supply the value that is most strongly authenticated (a local account before a remote one. The level of trust in this value is embodied in the actual authentication stack associated with the application, so it is ultimately at the discretion of the system administrator.

PAM_RUSER@PAM_RHOST should always identify the requesting user. In some cases, PAM_RUSER may be NULL. In such situations, it is unclear who the requesting entity is.

PAM_RHOST

The requesting hostname (the hostname of the machine from which the PAM_RUSER entity is requesting service). That is PAM_RUSER@PAM_RHOST does identify the requesting user. In some applications, PAM_RHOST may be NULL. In such situations, it is unclear where the authentication request is originating from.

PAM_AUTHTOK

The authentication token (often a password). This token should be ignored by all module functions besides pam_sm_authenticate(3) and pam_sm_chauthtok (3). In the former function it is used to pass the most recent authentication token from one stacked module to another. In the latter function the token is used for another purpose. It contains the currently active authentication token.

PAM_OLDAUTHTOK

The old authentication token. This token should be ignored by all module functions except pam_sm_chauthtok(3).

PAM_CONV

The pam_conv structure. See pam_conv(3).

The following additional items are specific to Linux-PAM and should not be used in portable applications:

PAM_FAIL_DELAY

A function pointer to redirect centrally managed failure delays. See pam_fail_delay(3).

PAM_XDISPLAY

The name of the X display. For graphical, X-based applications the value for this item should be the $DISPLAY variable. This value may be used independently of PAM_TTY for passing the name of the display.

PAM_XAUTHDATA

A pointer to a structure containing the X authentication data required to make a connection to the display specified by PAM_XDISPLAY, if such information is necessary. See pam_xauth_data(3).

PAM_AUTHTOK_TYPE

The default action is for the module to use the following prompts when requesting passwords: "New UNIX password: " and "Retype UNIX password: ". The example word UNIX can be replaced with this item, by default it is empty. This item is used by pam_get_authtok(3).

If a service module wishes to obtain the name of the user, it should not use this function, but instead perform a call to pam_get_user(3).

Only a service module is privileged to read the authentication tokens, PAM_AUTHTOK and PAM_OLDAUTHTOK.

2.1.4.2. RETURN VALUES

PAM_BAD_ITEM

The application attempted to set an undefined or inaccessible item.

PAM_BUF_ERR

Memory buffer error.

PAM_PERM_DENIED

The value of item was NULL.

PAM_SUCCESS

Data was successful updated.

PAM_SYSTEM_ERR

The pam_handle_t passed as first argument was invalid.

2.1.5. Get user name

```
#include <security/pam_modules.h>

int pam_get_user(  pamh,
                   user,
                   prompt);

const pam_handle_t *pamh;
const char **user;
const char *prompt;
```

2.1.5.1. DESCRIPTION

The pam_get_user function returns the name of the user specified by pam_start (3). If no user was specified it returns what pam_get_item (pamh, PAM_USER, ...); would have returned. If this is NULL it obtains the username via the pam_conv(3) mechanism, it prompts the user with the first non-NULL string in the following
list:

- The prompt argument passed to the function.
- What is returned by pam_get_item (pamh, PAM_USER_PROMPT, ...);
- The default prompt: "login: "

By whatever means the username is obtained, a pointer to it is returned as the contents of *user. Note, this memory should not be free()'d or modified by the module.

This function sets the PAM_USER item associated with the pam_set_item(3) and pam_get_item(3) functions.

2.1.5.2. RETURN VALUES

PAM_SUCCESS

User name was successful retrieved.

PAM_SYSTEM_ERR

A NULL pointer was submitted.

PAM_CONV_ERR

The conversation method supplied by the application failed to obtain the username.

PAM_BUF_ERR

Memory buffer error.

PAM_ABORT

Error resuming an old conversation.

PAM_CONV_AGAIN

The conversation method supplied by the application is waiting for an event.

2.1.6. The conversation function

```
#include <security/pam_appl.h>

struct pam_message {
  int msg_style;
  const char *msg;
};

struct
 pam_response {
  char *resp;
  int resp_retcode;
};

struct pam_conv {
  int (*conv)(int num_msg, const struct pam_message **msg,
            struct pam_response **resp, void *appdata_ptr);
  void *appdata_ptr;
};
```

2.1.6.1. DESCRIPTION

The PAM library uses an application-defined callback to allow a direct communication between a loaded module and the application. This callback is specified by the struct pam_conv passed to pam_start(3) at the start of the transaction.

When a module calls the referenced conv() function, the argument appdata_ptr is set to the second element of this structure.

The other arguments of a call to conv() concern the information exchanged by module and application. That is to say, num_msg holds the length of the array of pointers, msg. After a successful return, the pointer resp points to an array of pam_response structures, holding the application supplied text. The resp_retcode member of this struct is unused and should be set to zero. It is the
caller's responsibility to release both, this array and the responses themselves, using free(3). Note, *resp is a struct pam_response array and not an array of pointers.

The number of responses is always equal to the num_msg conversation function argument. This does require that the response array is free(3)'d after every call to the conversation function. The index of the responses corresponds directly to the prompt index in the pam_message array.

On failure, the conversation function should release any resources it has allocated, and return one of the predefined PAM error codes.

Each message can have one of four types, specified by the msg_style member of struct pam_message:

PAM_PROMPT_ECHO_OFF

Obtain a string without echoing any text.

PAM_PROMPT_ECHO_ON

Obtain a string whilst echoing text.

PAM_ERROR_MSG

Display an error message.

PAM_TEXT_INFO

Display some text.

The point of having an array of messages is that it becomes possible to pass a number of things
to the application in a single call from the module. It can also be convenient for the application that related things come at once: a windows based application can then present a single form with many messages/ prompts on at once.

In passing, it is worth noting that there is a discrepancy between the way Linux-PAM handles the const struct pam_message **msg conversation function argument and the way that Solaris' PAM (and derivatives, known to include HP/UX, are there others?) does. Linux-PAM interprets the msg argument as entirely equivalent to the following prototype const struct pam_message *msg[] (which, in spirit, is consistent with the commonly used prototypes for argv argument to the familiar main() function: char **argv; and char *argv[]). Said another way Linux-PAM interprets the msg argument as a pointer to an array of num_msg read only 'struct pam_message' pointers. Solaris' PAM implementation interprets this argument as a pointer to a pointer to an array of num_msg pam_message structures.
Fortunately, perhaps, for most module/application developers when num_msg has a value of one these two definitions are entirely equivalent. Unfortunately, casually raising this number to two has led to unanticipated compatibility problems.

For what its worth the two known module writer work-arounds for trying to maintain source level compatibility with both PAM implementations are:

- never call the conversation function with num_msg greater than one.

- set up msg as doubly referenced so both types of conversation function can find the messages. That is, make

```
msg[n] = & (( *msg )[n])
```

2.1.6.2. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

Conversation failure. The application should not set *resp.

PAM_SUCCESS

Success.

2.1.7. Set or change PAM environment variable

```
#include <security/pam_appl.h>

int pam_putenv(  pamh,
                 name_value);
```

pam_handle_t *pamh;
const char *name_value;

2.1.7.1.
DESCRIPTION

The pam_putenv function is used to add or change the value of PAM environment variables as associated with the pamh handle.

The pamh argument is an authentication handle obtained by a prior call to pam_start(). The name_value argument is a single NUL terminated string of one of the following forms:

NAME=value of variable

In this case the environment variable of the given NAME is set to the indicated value: value of variable. If this variable is already known, it is overwritten. Otherwise it is added to the PAM environment.

NAME=

This function sets the variable to an empty value. It is listed separately to indicate that this is the correct way to achieve such a setting.

NAME

Without an '=' the pam_putenv() function will delete the corresponding variable from the PAM environment.

pam_putenv() operates on a copy of name_value, which means in contrast to putenv(3), the application is responsible for freeing the data.

2.1.7.2. RETURN
VALUES

PAM_PERM_DENIED

Argument name_value given is a NULL pointer.

PAM_BAD_ITEM

Variable requested (for deletion) is not currently set.

PAM_ABORT

The pamh handle is corrupt.

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

The environment variable was successfully updated.

2.1.8. Get a PAM environment variable

```
#include <security/pam_appl.h>

const char *pam_getenv( pamh,
                        name);

pam_handle_t *pamh;
const char *name;
```

2.1.8.1. DESCRIPTION

The pam_getenv function searches the PAM environment list as associated with the handle pamh for an item that matches the string pointed to by name and returns a pointer to the value of the environment variable. The application is not allowed to free the data.

2.1.8.2. RETURN VALUES

The pam_getenv function returns NULL on failure.

2.1.9. Getting the PAM environment

```
#include <security/pam_appl.h>

char **pam_getenvlist(  pamh);

pam_handle_t *pamh;
```

2.1.9.1. DESCRIPTION

The pam_getenvlist
function returns a complete copy of the PAM environment as associated with the handle pamh. The PAM environment variables represent the contents of the regular environment variables of the authenticated user when service is granted.

The format of the memory is a malloc()'d array of char pointers, the last

element of which is set to NULL. Each of the non-NULL entries in this array point to a NUL terminated and malloc()'d char string of the form: "name=value".

It should be noted that this memory will never be free()'d by libpam. Once obtained by a call to pam_getenvlist, it is the responsibility of the calling application to free() this memory.

It is by design, and not a coincidence, that the format and contents of the returned array matches that required for the third argument of the execle(3) function call.

2.1.9.2. RETURN VALUES

The pam_getenvlist function returns NULL on failure.

2.2. Other functions provided by libpam

2.2.1. Strings describing PAM error codes

```
#include
 <security/pam_appl.h>

const char *pam_strerror( pamh,
                          errnum);

pam_handle_t *pamh;
int errnum;
```

2.2.1.1. DESCRIPTION

The pam_strerror function returns a pointer to a string describing the error code passed in the argument errnum, possibly using the LC_MESSAGES part of the current locale to select the appropriate language. This string must not be modified by the application. No library function will modify this string.

2.2.1.2. RETURN VALUES

This function returns always a pointer to a string.

2.2.2. Request a delay on failure

```
#include <security/pam_appl.h>

int pam_fail_delay(  pamh,
                     usec);

pam_handle_t *pamh;
```

unsigned int usec;

2.2.2.1. DESCRIPTION

The pam_fail_delay function provides a mechanism by which an application or module can suggest a minimum delay of usec micro-seconds. The function keeps a record of the longest time requested with this function. Should pam_authenticate(3) fail, the failing return to the application is delayed by an amount of time randomly distributed (by up to 50%) about this longest value.

Independent of success, the delay time is reset to its zero default value when the PAM service module returns control to the application. The delay occurs after all authentication modules have been called, but before control is returned to the service application.

When using this function the programmer should check if it is available with:

```
#ifdef HAVE_PAM_FAIL_DELAY
  ....
#endif /* HAVE_PAM_FAIL_DELAY */
```

For applications written with a single thread that are event driven in nature, generating this delay may be undesirable. Instead, the application may want to register the delay in some other way. For example, in a single threaded server that serves multiple authentication requests from a single event loop, the application might want to simply mark a given connection as blocked until an application timer expires. For this reason the delay function can be changed with the PAM_FAIL_DELAY item. It can be queried and set with pam_get_item(3) and pam_set_item(3) respectively. The value used to set it should be a function pointer of the following prototype:

```
void (*delay_fn)(int retval, unsigned usec_delay, void *appdata_ptr);
```

The arguments being the retval return code of the module stack, the usec_delay micro-second delay that libpam is requesting and the appdata_ptr that the application has associated with the current pamh. This last value was set by the application when it called pam_start(3) or explicitly with pam_set_item(3).

Note that the PAM_FAIL_DELAY item is set to NULL by default. This indicates that PAM should perform a random delay as described above when authentication fails and a delay has been suggested. If an application does not want the PAM library to perform any delay on authentication failure, then the application must define a custom delay function that executes no statements and set the

PAM_FAIL_DELAY item to point to this function.

2.2.2.2.
RETURN VALUES

PAM_SUCCESS

Delay was successful adjusted.

PAM_SYSTEM_ERR

A NULL pointer was submitted as PAM handle.

Chapter 3. What is expected of a module

The module must supply a sub-set of the six functions listed below. Together they define the function of a Linux-PAM module. Module developers are strongly urged to read the comments on security that follow this list.

3.1. Overview

The six module functions are grouped into four independent management groups. These groups are as follows: authentication, account, session and password. To be properly defined, a module must define all functions within at least one of these groups. A single module may contain the necessary functions for all four groups.

3.1.1. Functional independence

The independence of the four groups of service a module can offer means that the module should allow for the possibility that any one of these four services may legitimately be called in any order. Thus, the module writer should consider
the appropriateness of performing a service without the prior success
of some other part of the module.

As an informative example, consider the possibility that an application applies to change a user's authentication token, without having first requested that Linux-PAM authenticate the user. In some cases this may be deemed appropriate: when root wants to change the authentication token of some lesser user. In other cases it may not be appropriate: when joe maliciously wants to reset alice's password; or when anyone other than the user themself wishes to reset their KERBEROS authentication token. A policy for this action should be defined by any reasonable authentication scheme, the module writer should consider this when implementing a given module.

3.1.2. Minimizing administration problems

To avoid system administration problems and the poor construction of a /etc/
pam.conf file, the module developer may define all six of the following
functions. For those functions that
would not be called, the module should
return PAM_SERVICE_ERR and write an appropriate message to the system log. When
this action is deemed inappropriate, the function would simply return
PAM_IGNORE.

3.1.3. Arguments supplied to the module

The flags argument of each of the following functions can be logically OR'd
with PAM_SILENT, which is used to inform the module to not pass any text
(errors or warnings) application.

The argc and argv arguments are taken from the line appropriate to this
module---that is, with the service_name matching that of the application---in
the configuration file (see the Linux-PAM System Administrators' Guide).
Together these two parameters provide the number of arguments and an array of
pointers to the individual argument tokens. This will be familiar to C
programmers as the ubiquitous method of passing command arguments to the
function main(). Note, however, that the first argument (argv[0]) is a true
argument and not the name of the module.

3.2.
Authentication management

3.2.1. Service function for user authentication

```
#include <security/pam_modules.h>

int pam_sm_authenticate( pamh,
                         flags,
                         argc,
                         argv);

pam_handle_t *pamh;
int flags;
int argc;
const char **argv;
```

3.2.1.1. DESCRIPTION

The pam_sm_authenticate function is the service module's implementation of the
pam_authenticate(3) interface.

This function performs the task of authenticating the user.

Valid flags, which may be logically OR'd with PAM_SILENT, are:

PAM_SILENT

Do not emit any messages.

PAM_DISALLOW_NULL_AUTHTOK

Return PAM_AUTH_ERR if the database of authentication tokens for this authentication mechanism has a NULL entry for the user. Without this flag, such a NULL token will lead to a success without the user being prompted.

3.2.1.2. RETURN VALUES

PAM_AUTH_ERR

Authentication failure.

PAM_CRED_INSUFFICIENT

For some reason the application does
not have sufficient credentials to
authenticate the user.

PAM_AUTHINFO_UNAVAIL

The modules were not able to access the authentication information. This might be due to a network or hardware failure etc.

PAM_SUCCESS

The authentication token was successfully updated.

PAM_USER_UNKNOWN

The supplied username is not known to the authentication service.

PAM_MAXTRIES

One or more of the authentication modules has reached its limit of tries authenticating the user. Do not try again.

3.2.2. Service function to alter credentials

```
#include <security/pam_modules.h>

int pam_sm_setcred(  pamh,
                     flags,
```

argc,
argv);

pam_handle_t *pamh;
int flags;
int argc;
const char **argv;

3.2.2.1. DESCRIPTION

The pam_sm_setcred function is the service module's implementation of the pam_setcred(3) interface.

This function performs the task of altering the credentials of the user with respect to the corresponding
authorization scheme. Generally, an authentication
module may have access to more information about a user than their authentication token. This function is used to make such information available to the application. It should only be called after the user has been authenticated but before a session has been established.

Valid flags, which may be logically OR'd with PAM_SILENT, are:

PAM_SILENT

Do not emit any messages.

PAM_ESTABLISH_CRED

Initialize the credentials for the user.

PAM_DELETE_CRED

Delete the credentials associated with the authentication service.

PAM_REINITIALIZE_CRED

Reinitialize the user credentials.

PAM_REFRESH_CRED

Extend the lifetime of the user credentials.

The way the auth stack is navigated in order to evaluate the pam_setcred() function call, independent of the pam_sm_setcred() return codes, is exactly the same way that it was navigated when evaluating the pam_authenticate() library call. Typically, if a stack entry was

ignored in evaluating pam_authenticate(),
it will be ignored when libpam evaluates the pam_setcred() function call.
Otherwise, the return codes from each module specific pam_sm_setcred() call are
treated as required.

3.2.2.2. RETURN VALUES

PAM_CRED_UNAVAIL

This module cannot retrieve the user's credentials.

PAM_CRED_EXPIRED

The user's credentials have expired.

PAM_CRED_ERR

This module was unable to set the credentials of the user.

PAM_SUCCESS

The user credential was successfully set.

PAM_USER_UNKNOWN

The user is not known to this authentication module.

These, non-PAM_SUCCESS, return values will typically lead to the credential
stack failing. The first such error will dominate in the return value of
pam_setcred().

3.3. Account management

3.3.1. Service function for account management

```
#include <security/pam_modules.h>

int pam_sm_acct_mgmt(  pamh,
                       flags,
                       argc,
                       argv);

pam_handle_t
 *pamh;
int flags;
int argc;
const char **argv;
```

3.3.1.1. DESCRIPTION

The pam_sm_acct_mgmt function is the service module's implementation of the pam_acct_mgmt(3) interface.

This function performs the task of establishing whether the user is permitted to gain access at this time. It should be understood that the user has previously been validated by an authentication module. This function checks for other things. Such things might be: the time of day or the date, the terminal line, remote hostname, etc. This function may also determine things like the expiration on passwords, and respond that the user change it before continuing.

Valid flags, which may be logically OR'd with PAM_SILENT, are:

PAM_SILENT

Do not emit any messages.

PAM_DISALLOW_NULL_AUTHTOK

Return PAM_AUTH_ERR if the database of authentication tokens for this authentication mechanism has a NULL entry for the user.

3.3.1.2. RETURN VALUES

PAM_ACCT_EXPIRED

User account has expired.

PAM_AUTH_ERR

Authentication failure.

PAM_NEW_AUTHTOK_REQD

The user's authentication token has expired. Before calling this function again the application will arrange for a new one to be given. This will likely result in a call to pam_sm_chauthtok().

PAM_PERM_DENIED

Permission denied.

PAM_SUCCESS

The authentication token was successfully updated.

PAM_USER_UNKNOWN

User unknown to password service.

3.4. Session management

3.4.1. Service function to start session management

```
#include <security/pam_modules.h>

int pam_sm_open_session( pamh,
                         flags,
                         argc,
                         argv);

pam_handle_t *pamh;
int flags;
int argc;
const char **argv;
```

3.4.1.1. DESCRIPTION

The pam_sm_open_session function is the service module's implementation of the pam_open_session(3) interface.

This function is called to commence a session. The only valid value for flags is zero or:

PAM_SILENT

Do not emit any messages.

3.4.1.2. RETURN VALUES

PAM_SESSION_ERR

Cannot make/remove an entry for the specified session.

PAM_SUCCESS

The session was successfully started.

3.4.2. Service function to terminate session management

```
#include <security/pam_modules.h>
```

```
int pam_sm_close_session( pamh,
                          flags,
                          argc,
                          argv);

pam_handle_t *pamh;
int flags;
int argc;
const char **argv;
```

3.4.2.1. DESCRIPTION

The pam_sm_close_session function is the service module's implementation of the pam_close_session(3) interface.

This function is called to terminate a session. The only valid value for flags is zero or:

PAM_SILENT

Do not emit any messages.

3.4.2.2. RETURN VALUES

PAM_SESSION_ERR

Cannot make/remove an entry for the specified session.

PAM_SUCCESS

The session was successfully terminated.

3.5. Authentication token management

3.5.1. Service function to alter authentication token

```
#include <security/pam_modules.h>

int
 pam_sm_chauthtok(  pamh,
                    flags,
                    argc,
                    argv);

pam_handle_t *pamh;
int flags;
int argc;
```

const char **argv;

3.5.1.1. DESCRIPTION

The pam_sm_chauthtok function is the service module's implementation of the pam_chauthtok(3) interface.

This function is used to (re-)set the authentication token of the user.

Valid flags, which may be logically OR'd with PAM_SILENT, are:

PAM_SILENT

Do not emit any messages.

PAM_CHANGE_EXPIRED_AUTHTOK

This argument indicates to the module that the user's authentication token (password) should only be changed if it has expired. This flag is optional and must be combined with one of the following two flags. Note, however, the following two options are mutually exclusive.

PAM_PRELIM_CHECK

This indicates that the modules are being probed as to their ready status for altering the user's authentication token. If the module requires access to another system over some network it should attempt to verify it can connect to this system on receiving this flag. If a module cannot establish it is ready to update the user's authentication token it should return PAM_TRY_AGAIN, this information will be passed back to the application.

If the control value sufficient is used in the password stack, the PAM_PRELIM_CHECK section of the modules following that control value is not always executed.

PAM_UPDATE_AUTHTOK

This informs the module that this is the call it should change the authorization tokens. If the flag is logically OR'd with PAM_CHANGE_EXPIRED_AUTHTOK, the token is only changed if it has actually expired.

The PAM library calls this function twice in succession. The first time with PAM_PRELIM_CHECK and then, if the module does not return PAM_TRY_AGAIN, subsequently with PAM_UPDATE_AUTHTOK. It is only on the second call that the authorization token is (possibly)

changed.

3.5.1.2. RETURN VALUES

PAM_AUTHTOK_ERR

The module was unable to obtain the new authentication token.

PAM_AUTHTOK_RECOVERY_ERR

The module was unable to obtain the old authentication token.

PAM_AUTHTOK_LOCK_BUSY

Cannot change the authentication token since it is currently locked.

PAM_AUTHTOK_DISABLE_AGING

Authentication token aging has been disabled.

PAM_PERM_DENIED

Permission denied.

PAM_TRY_AGAIN

Preliminary check was unsuccessful. Signals an immediate return to the application is desired.

PAM_SUCCESS

The authentication token was successfully updated.

PAM_USER_UNKNOWN

User unknown to password service.

Chapter 4. Generic optional arguments

Here we list the generic arguments that all modules can expect to be passed. They are not mandatory, and their absence should be accepted without comment by the module.

debug

Use the pam_syslog(3) call to log debugging information to the system log files.

use_first_pass

The module should not prompt the user for a password. Instead, it should obtain the previously typed password (by a call to pam_get_item() for the PAM_AUTHTOK item), and use that. If that doesn't work, then the user will not be authenticated. (This option is intended for auth and passwd modules only).

Chapter 5. Programming notes

Here we collect some pointers for the module writer to bear in mind when writing/developing a Linux-PAM compatible module.

5.1. Security issues for module creation

5.1.1. Sufficient resources

Care should be taken to ensure that the proper execution of a module is not compromised by a lack of system resources. If a module is unable to open sufficient files to perform its task, it should fail gracefully, or request additional resources. Specifically, the quantities manipulated by the setrlimit (2) family of commands should be taken into consideration.

5.1.2. Who´s who?

Generally, the module may wish to establish the identity of the user requesting a
service. This may not be the same as the username returned by pam_get_user(). Indeed, that is only going to be the name of the user under whose identity the service will be given. This is not necessarily the user that requests the service.

In other words, user X runs a program that is setuid-Y, it grants the user to have the permissions of Z. A specific example of this sort of service request is the su program: user joe executes su to become the user jane. In this situation X=joe, Y=root and Z=jane. Clearly, it is important that the module does not confuse these different users and grant an inappropriate level of privilege.

The following is the convention to be adhered to when juggling user-identities.

- X, the identity of the user invoking the service request. This is the user identifier; returned by the function getuid(2).

- Y, the privileged identity of the application used to grant the requested service. This is the effective user identifier; returned by

the function
geteuid(2).

- Z, the user under whose identity the service will be granted. This is the username returned by pam_get_user() and also stored in the Linux-PAM item, PAM_USER.

- Linux-PAM has a place for an additional user identity that a module may care to make use of. This is the PAM_RUSER item. Generally, network sensitive modules/applications may wish to set/read this item to establish the identity of the user requesting a service from a remote location.

Note, if a module wishes to modify the identity of either the uid or euid of the running process, it should take care to restore the original values prior to returning control to the Linux-PAM library.

5.1.3. Using the conversation function

Prior to calling the conversation function, the module should reset the contents of the pointer that will return the applications response. This is a good idea since the application may fail to fill the pointer and the module should be in a position
to notice!

The module should be prepared for a failure from the conversation. The generic error would be PAM_CONV_ERR, but anything other than PAM_SUCCESS should be treated as indicating failure.

5.1.4. Authentication tokens

To ensure that the authentication tokens are not left lying around the items, PAM_AUTHTOK and PAM_OLDAUTHTOK, are not available to the application: they are defined in <security/pam_modules.h>. This is ostensibly for security reasons, but a maliciously programmed application will always have access to all memory of the process, so it is only superficially enforced. As a general rule the module should overwrite authentication tokens as soon as they are no longer needed. Especially before free()'ing them. The Linux-PAM library is required to do this when either of these authentication token items are (re)set.

Not to dwell too little on this concern; should the module store the authentication tokens either as (automatic) function variables or using pam_ [gs]et_data()
the associated memory should be over-written explicitly before it is released. In the case of the latter storage mechanism, the associated cleanup() function should explicitly overwrite the *data before free()'ing it: for example,

/*

```
* An example cleanup() function for releasing memory that was used to
* store a password.
*/

int cleanup(pam_handle_t *pamh, void *data, int error_status)
{
  char *xx;

  if ((xx = data)) {
     while (*xx)
        *xx++ = '\0';
     free(data);
  }
  return PAM_SUCCESS;
}
```

5.2. Use of syslog(3)

Only rarely should error information be directed to the user. Usually, this is to be limited to “sorry you cannot login now” type messages. Information concerning errors in the configuration file, /etc/pam.conf, or due to some system failure encountered by the module, should be written to syslog(3) with facility-type LOG_AUTHPRIV.

With a few exceptions, the level of logging is, at the discretion of the module developer. Here is the
recommended usage of different logging levels:

- As a general rule, errors encountered by a module should be logged at the LOG_ERR level. However, information regarding an unrecognized argument, passed to a module from an entry in the /etc/pam.conf file, is required to be logged at the LOG_ERR level.

- Debugging information, as activated by the debug argument to the module in /etc/pam.conf, should be logged at the LOG_DEBUG level.

- If a module discovers that its personal configuration file or some system file it uses for information is corrupted or somehow unusable, it should indicate this by logging messages at level, LOG_ALERT.

- Shortages of system resources, such as a failure to manipulate a file or malloc() failures should be logged at level LOG_CRIT.

- Authentication failures, associated with an incorrectly typed password should be logged at level, LOG_NOTICE.

5.3. Modules that require system libraries

Writing a module is much like
writing an application. You have to provide the
"conventional hooks" for it to work correctly, like pam_sm_authenticate() etc.,
which would correspond to the main() function in a normal function.

Typically, the author may want to link against some standard system libraries.
As when one compiles a normal program, this can be done for modules too: you
simply append the -lXXX arguments for the desired libraries when you create the
shared module object. To make sure a module is linked to the libwhatever.so
library when it is dlopen()ed, try:

% gcc -shared -o pam_module.so pam_module.o -lwhatever

Chapter 6. An example module

At some point, we may include a fully commented example of a module in this
document. For now, please look at the modules directory of the Linux-PAM
sources.

Chapter 7. See also

- The Linux-PAM System Administrators' Guide.

- The Linux-PAM Application Developers' Guide.

- The V. Samar and R. Schemers (SunSoft), ``UNIFIED LOGIN WITH PLUGGABLE
  AUTHENTICATION
MODULES", Open Software Foundation Request For Comments
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Chapter 9. Copyright information for this document

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Found in path(s):
* /linux-pam-1-5-3-docs-tar-xz/Linux-PAM-1.5.3/doc/mwg/Linux-PAM_MWG.txt

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

The Linux-PAM Application Developers' Guide

Andrew G. Morgan

<morgan@kernel.org>

Thorsten Kukuk

<kukuk@thkukuk.de>

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Abstract

This manual documents what an application developer needs to know about the Linux-PAM library. It describes how an application might use the Linux-PAM library to authenticate users. In addition it contains a description of the functions to be found in libpam_misc library, that can be used in general applications. Finally, it contains some comments on PAM related security issues for the application developer.

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Chapter 1. Introduction

1.1. Description

Linux-PAM (Pluggable Authentication Modules for Linux) is a library that enables the local system administrator to choose how individual applications authenticate users. For an overview of the Linux-PAM library see the Linux-PAM System Administrators' Guide.

It is the purpose of the Linux-PAM project to liberate the development of privilege granting software from the development of secure and appropriate authentication schemes. This is accomplished by providing a documented library of functions that an application may use for all forms of user authentication

management. This library dynamically
loads locally configured authentication
modules that actually perform the authentication tasks.

From the perspective of an application developer the information contained in the local configuration of the PAM library should not be important. Indeed it is intended that an application treat the functions documented here as a 'black box' that will deal with all aspects of user authentication. 'All aspects' includes user verification, account management, session initialization/ termination and also the resetting of passwords (authentication tokens).

1.2. Synopsis

For general applications that wish to use the services provided by Linux-PAM the following is a summary of the relevant linking information:

#include <security/pam_appl.h>

cc -o application .... -lpam

In addition to libpam, there is a library of miscellaneous functions that make the job of writing PAM-aware applications easier (this library is not covered in the DCE-RFC for PAM and is specific to the Linux-PAM distribution):

#include
<security/pam_appl.h>
#include <security/pam_misc.h>

cc -o application .... -lpam -lpam_misc

Chapter 2. Overview

Most service-giving applications are restricted. In other words, their service is not available to all and every prospective client. Instead, the applying client must jump through a number of hoops to convince the serving application that they are authorized to obtain service.

The process of authenticating a client is what PAM is designed to manage. In addition to authentication, PAM provides account management, credential management, session management and authentication-token (password changing) management services. It is important to realize when writing a PAM based application that these services are provided in a manner that is transparent to the application. That is to say, when the application is written, no assumptions can be made about how the client will be authenticated.

The process of authentication is performed by the PAM library via a call to

pam_authenticate().
The return value of this function will indicate whether a named client (the user) has been authenticated. If the PAM library needs to prompt the user for any information, such as their name or a password then it will do so. If the PAM library is configured to authenticate the user using some silent protocol, it will do this too. (This latter case might be via some hardware interface for example.)

It is important to note that the application must leave all decisions about when to prompt the user at the discretion of the PAM library.

The PAM library, however, must work equally well for different styles of application. Some applications, like the familiar login and passwd are terminal based applications, exchanges of information with the client in these cases is as plain text messages. Graphically based applications, however, have a more sophisticated interface. They generally interact with the user via specially constructed dialogue boxes. Additionally, network based services require that text messages exchanged with the client are specially formatted for automated processing: one such example is ftpd which prefixes each exchanged message with a numeric identifier.

The presentation of simple requests to a client is thus something very dependent on the protocol that the serving application will use. In spite of the fact that PAM demands that it drives the whole authentication process, it is not possible to leave such protocol subtleties up to the PAM library. To overcome this potential problem, the application provides the PAM library with a conversation function. This function is called from within the PAM library and enables the PAM to directly interact with the client. The sorts of things that this conversation function must be able to do are prompt the user with text and/or obtain textual input from the user for processing by the PAM library. The details of this function are provided in a later section.

For example, the conversation function may be called by the PAM library with a request to prompt the user for a password. Its job is to reformat the prompt request into a form that the client will understand. In the case of ftpd, this might involve prefixing the string with the number 331 and sending the request over the network to a connected client. The conversation function will then obtain any reply and, after extracting the typed password, will return this string of text to the PAM library. Similar concerns need to be addressed in the case of an X-based graphical server.

There are a number of issues that need to be addressed when one is porting an existing application to become PAM compliant. A section below has been devoted to this: Porting legacy applications.

Besides authentication, PAM provides other forms of management. Session

management is provided with calls to pam_open_session() and pam_close_session
(). What these functions actually do is up to the local administrator. But
typically, they could be used to
log entry and exit from the system or for
mounting and unmounting the user's home directory. If an application provides
continuous service for a period of time, it should probably call these
functions, first open after the user is authenticated and then close when the
service is terminated.

Account management is another area that an application developer should include
with a call to pam_acct_mgmt(). This call will perform checks on the good
health of the user's account (has it expired etc.). One of the things this
function may check is whether the user's authentication token has expired - in
such a case the application may choose to attempt to update it with a call to
pam_chauthtok(), although some applications are not suited to this task (ftp
for example) and in this case the application should deny access to the user.

PAM is also capable of setting and deleting the user's credentials with the
call pam_setcred(). This function should always be called after the user is
authenticated
and before service is offered to the user. By convention, this
should be the last call to the PAM library before the PAM session is opened.
What exactly a credential is, is not well defined. However, some examples are
given in the glossary below.

Chapter 3. The public interface to Linux-PAM

Firstly, the relevant include file for the Linux-PAM library is <security/
pam_appl.h>. It contains the definitions for a number of functions. After
listing these functions, we collect some guiding remarks for programmers.

3.1. What can be expected by the application

3.1.1. Initialization of PAM transaction

```
#include <security/pam_appl.h>

int pam_start( service_name,
               user,
               pam_conversation,
               pamh);

const char *service_name;
const char *user;
const struct pam_conv *pam_conversation;
pam_handle_t **pamh;
```

```
int pam_start_confdir( service_name,
                       user,

 pam_conversation,
                       confdir,
                       pamh);

const char *service_name;
const char *user;
const struct pam_conv *pam_conversation;
const char *confdir;
pam_handle_t **pamh;
```

3.1.1.1. DESCRIPTION

The pam_start function creates the PAM context and initiates the PAM transaction. It is the first of the PAM functions that needs to be called by an application. The transaction state is contained entirely within the structure identified by this handle, so it is possible to have multiple transactions in parallel. But it is not possible to use the same handle for different transactions, a new one is needed for every new context.

The service_name argument specifies the name of the service to apply and will be stored as PAM_SERVICE item in the new context. The policy for the service will be read from the file /etc/pam.d/service_name or, if that file does not exist, from /etc/pam.conf.

The user argument can specify the name of the target user and will be stored as PAM_USER item. If the argument is NULL, the module has to ask for this item if necessary.

The pam_conversation argument points to a struct pam_conv describing the conversation function to use. An application must provide this for direct communication between a loaded module and the application.

Following a successful return (PAM_SUCCESS) the contents of pamh is a handle that contains the PAM context for successive calls to the PAM functions. In an error case is the content of pamh undefined.

The pam_handle_t is a blind structure and the application should not attempt to probe it directly for information. Instead the PAM library provides the functions pam_set_item(3) and pam_get_item(3). The PAM handle cannot be used for multiple authentications at the same time as long as pam_end was not called on it before.

The pam_start_confdir function behaves like the pam_start function but it also

allows setting confdir argument with a path to a directory to override
the
default (/etc/pam.d) path for service policy files. If the confdir is NULL, the
function works exactly the same as pam_start.

3.1.1.2. RETURN VALUES

PAM_ABORT

General failure.

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

Transaction was successfully started.

PAM_SYSTEM_ERR

System error, for example a NULL pointer was submitted instead of a pointer
to data.

3.1.2. Termination of PAM transaction

```
#include <security/pam_appl.h>

int pam_end( pamh,
        pam_status);

pam_handle_t *pamh;
int pam_status;
```

3.1.2.1. DESCRIPTION

The pam_end function terminates the PAM transaction and is the last function an
application should call in the PAM context. Upon return the handle pamh is no
longer valid and all memory associated with it will be invalid.

The pam_status argument should be set to the value returned to the application
by the last PAM library call.

The value taken by pam_status is used as an argument to the module specific
callback
function, cleanup() (See pam_set_data(3) and pam_get_data(3)). In this
way the module can be given notification of the pass/fail nature of the

tear-down process, and perform any last minute tasks that are appropriate to the module before it is unlinked. This argument can be logically OR'd with PAM_DATA_SILENT to indicate that the module should not treat the call too seriously. It is generally used to indicate that the current closing of the library is in a fork(2)ed process, and that the parent will take care of cleaning up things that exist outside of the current process space (files etc.).

This function free's all memory for items associated with the pam_set_item(3) and pam_get_item(3) functions. Pointers associated with such objects are not valid anymore after pam_end was called.

3.1.2.2. RETURN VALUES

PAM_SUCCESS

Transaction was successful terminated.

PAM_SYSTEM_ERR

System error, for example a NULL pointer was submitted as PAM handle or the function was called
by a module.

3.1.3. Setting PAM items

```
#include <security/pam_modules.h>

int pam_set_item(  pamh,
                item_type,
                item);

pam_handle_t *pamh;
int item_type;
const void *item;
```

3.1.3.1. DESCRIPTION

The pam_set_item function allows applications and PAM service modules to access and to update PAM information of item_type. For this a copy of the object pointed to by the item argument is created. The following item_types are supported:

PAM_SERVICE

The service name (which identifies that PAM stack that the PAM functions will use to authenticate the program).

PAM_USER

The username of the entity under whose identity service will be given. That is, following authentication, PAM_USER identifies the local entity that gets to use the service. Note, this value can be mapped from something (eg., "anonymous") to something else (eg. "guest119") by any module in the PAM stack. As such an application should consult
the value of PAM_USER
after each call to a PAM function.

PAM_USER_PROMPT

The string used when prompting for a user's name. The default value for this string is a localized version of "login: ".

PAM_TTY

The terminal name prefixed by /dev/ for device files. In the past, graphical X-based applications used to store the $DISPLAY variable here, but with the introduction of PAM_XDISPLAY this usage is deprecated.

PAM_RUSER

The requesting user name: local name for a locally requesting user or a remote user name for a remote requesting user.

Generally an application or module will attempt to supply the value that is most strongly authenticated (a local account before a remote one. The level of trust in this value is embodied in the actual authentication stack associated with the application, so it is ultimately at the discretion of the system administrator.

PAM_RUSER@PAM_RHOST should always identify the requesting user. In some

cases, PAM_RUSER may be NULL. In such situations, it is unclear who the requesting entity is.

PAM_RHOST

The requesting hostname (the hostname of the machine from which the PAM_RUSER entity is requesting service). That is PAM_RUSER@PAM_RHOST does identify the requesting user. In some applications, PAM_RHOST may be NULL. In such situations, it is unclear where the authentication request is originating from.

PAM_AUTHTOK

The authentication token (often a password). This token should be ignored by all module functions besides pam_sm_authenticate(3) and pam_sm_chauthtok (3). In the former function it is used to pass the most recent authentication token from one stacked module to another. In the latter function the token is used for another purpose. It contains the currently active authentication token.

PAM_OLDAUTHTOK

The old authentication token. This token should be ignored by all module functions except pam_sm_chauthtok(3).

PAM_CONV

The pam_conv structure. See pam_conv(3).

The following additional items are specific to Linux-PAM and should not be used in portable applications:

PAM_FAIL_DELAY

A function pointer to redirect centrally managed failure delays. See pam_fail_delay(3).

PAM_XDISPLAY

The name of the X display. For graphical, X-based applications the value for this item should be the $DISPLAY variable. This value may be used independently of PAM_TTY for passing the name of the display.

PAM_XAUTHDATA

A pointer to a structure containing the X authentication data required to make a connection to the display specified by PAM_XDISPLAY, if such information is necessary. See pam_xauth_data(3).

PAM_AUTHTOK_TYPE

The default action is for the module to use the following prompts when requesting passwords: "New UNIX password: " and "Retype UNIX password: ". The example word UNIX can be replaced with this item, by default it is empty. This item is used
by pam_get_authtok(3).

For all item_types, other than PAM_CONV and PAM_FAIL_DELAY, item is a pointer to a <NUL> terminated character string. In the case of PAM_CONV, item points to an initialized pam_conv structure. In the case of PAM_FAIL_DELAY, item is a function pointer: void (*delay_fn)(int retval, unsigned usec_delay, void

*appdata_ptr)

Both, PAM_AUTHTOK and PAM_OLDAUTHTOK, will be reset before returning to the application. Which means an application is not able to access the authentication tokens.

3.1.3.2. RETURN VALUES

PAM_BAD_ITEM

The application attempted to set an undefined or inaccessible item.

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

Data was successful updated.

PAM_SYSTEM_ERR

The pam_handle_t passed as first argument was invalid.

3.1.4. Getting PAM items

```
#include <security/pam_modules.h>

int pam_get_item(  pamh,
                   item_type,
                   item);

const pam_handle_t *pamh;
int item_type;
const void **item;
```

3.1.4.1. DESCRIPTION

The pam_get_item function allows applications and PAM service modules to access and retrieve PAM information of item_type. Upon successful return, item contains a pointer to the value of the corresponding item. Note, this is a pointer to the actual data and should not be free()'ed or over-written! The following values are supported for item_type:

PAM_SERVICE

The service name (which identifies that PAM stack that the PAM functions

will use to authenticate the program).

PAM_USER

The username of the entity under whose identity service will be given. That is, following authentication, PAM_USER identifies the local entity that gets to use the service. Note, this value can be mapped from something (eg., "anonymous") to something else (eg. "guest119") by any module in the PAM stack. As such an application should consult the value of PAM_USER after each call to a PAM function.

PAM_USER_PROMPT

The string used when prompting for a user's name. The default value for this string is a localized version of "login: ".

PAM_TTY

The terminal name prefixed by /dev/ for device files. In the past, graphical X-based applications used to store the $DISPLAY variable here, but with the introduction of PAM_XDISPLAY this usage is deprecated.

PAM_RUSER

The requesting user name: local name for a locally requesting user or a remote user name for a remote requesting user.

Generally an application or module will attempt to supply the value that is most strongly authenticated (a local account before a remote one. The level of trust in this value is embodied in the actual authentication stack associated with the application, so it is ultimately at the discretion of the system administrator.

PAM_RUSER@PAM_RHOST should always identify the requesting user. In some cases, PAM_RUSER may be NULL. In such situations, it is unclear who the requesting entity is.

PAM_RHOST

The requesting hostname (the hostname of the machine from which the PAM_RUSER entity is requesting service). That is PAM_RUSER@PAM_RHOST does identify the requesting user. In some applications, PAM_RHOST may be NULL. In such situations, it is unclear where the authentication request is originating from.

PAM_AUTHTOK

The authentication token (often a password). This token should be ignored by all module functions besides pam_sm_authenticate(3) and pam_sm_chauthtok (3). In the former function it is used to pass the most recent authentication token from one stacked module to another. In the latter function the token is used for another purpose. It contains the currently active authentication token.

PAM_OLDAUTHTOK

The old authentication token. This token should be ignored by all module functions except pam_sm_chauthtok(3).

PAM_CONV

The pam_conv structure. See pam_conv(3).

The following additional items are specific to Linux-PAM and should not be used in portable applications:

PAM_FAIL_DELAY

A function pointer to redirect centrally managed failure delays. See pam_fail_delay(3).

PAM_XDISPLAY

The name of the X display. For graphical, X-based applications the value for this item should be the $DISPLAY variable. This value may be used independently of PAM_TTY for passing the name of the display.

PAM_XAUTHDATA

A pointer to a structure containing the X authentication data required to make a connection to the display specified by PAM_XDISPLAY, if such information is necessary. See pam_xauth_data(3).

PAM_AUTHTOK_TYPE

The default action is for the module to use the following prompts when requesting passwords: "New UNIX password: " and "Retype UNIX password: ". The example word UNIX can be replaced with this item, by default it is empty. This item is used by pam_get_authtok(3).

If a service module wishes to obtain the name of the user, it should not use this function,

but instead perform a call to pam_get_user(3).

Only a service module is privileged to read the authentication tokens, PAM_AUTHTOK and PAM_OLDAUTHTOK.

3.1.4.2. RETURN VALUES

PAM_BAD_ITEM

The application attempted to set an undefined or inaccessible item.

PAM_BUF_ERR

Memory buffer error.

PAM_PERM_DENIED

The value of item was NULL.

PAM_SUCCESS

Data was successful updated.

PAM_SYSTEM_ERR

The pam_handle_t passed as first argument was invalid.

3.1.5. Strings describing PAM error codes

```
#include <security/pam_appl.h>

const char *pam_strerror( pamh,
                          errnum);

pam_handle_t *pamh;
int errnum;
```

3.1.5.1. DESCRIPTION

The pam_strerror function returns a pointer to a string describing the error code passed in the argument errnum, possibly using the LC_MESSAGES part of the current locale to select the appropriate language. This string must not be modified by the application. No library function will modify this string.

3.1.5.2.
RETURN VALUES

This function returns always a pointer to a string.

3.1.6. Request a delay on failure

```
#include <security/pam_appl.h>

int pam_fail_delay(  pamh,
                     usec);

pam_handle_t *pamh;
unsigned int usec;
```

3.1.6.1. DESCRIPTION

The pam_fail_delay function provides a mechanism by which an application or module can suggest a minimum delay of usec micro-seconds. The function keeps a record of the longest time requested with this function. Should pam_authenticate(3) fail, the failing return to the application is delayed by an amount of time randomly distributed (by up to 50%) about this longest value.

Independent of success, the delay time is reset to its zero default value when the PAM service module returns control to the application. The delay occurs after all authentication modules have been called, but before control is returned to the service application.

When using this function the programmer should check if it is available with:

```
#ifdef HAVE_PAM_FAIL_DELAY
   ....
#endif /* HAVE_PAM_FAIL_DELAY */
```

For applications written with a single thread that are event driven in nature, generating this delay may be undesirable. Instead, the application may want to register the delay in some other way. For example, in a single threaded server that serves multiple authentication requests from a single event loop, the application might want to simply mark a given connection as blocked until an application timer expires. For this reason the delay function can be changed with the PAM_FAIL_DELAY item. It can be queried and set with pam_get_item(3) and pam_set_item(3) respectively. The value used to set it should be a function pointer of the following prototype:

```
void (*delay_fn)(int retval, unsigned usec_delay, void *appdata_ptr);
```

The arguments being the retval return code of the module stack, the usec_delay micro-second delay that libpam is requesting and the appdata_ptr that the

application has associated with the current pamh. This last
value was set by
the application when it called pam_start(3) or explicitly with pam_set_item(3).

Note that the PAM_FAIL_DELAY item is set to NULL by default. This indicates that PAM should perform a random delay as described above when authentication fails and a delay has been suggested. If an application does not want the PAM library to perform any delay on authentication failure, then the application must define a custom delay function that executes no statements and set the PAM_FAIL_DELAY item to point to this function.

3.1.6.2. RETURN VALUES

PAM_SUCCESS

Delay was successful adjusted.

PAM_SYSTEM_ERR

A NULL pointer was submitted as PAM handle.

3.1.7. Authenticating the user

```
#include <security/pam_appl.h>

int pam_authenticate(  pamh,
                       flags);

pam_handle_t *pamh;
int flags;
```

3.1.7.1. DESCRIPTION

The pam_authenticate function is used to authenticate the user. The user is required to provide an authentication token depending upon the authentication service,
usually this is a password, but could also be a finger print.

The PAM service module may request that the user enter their username via the conversation mechanism (see pam_start(3) and pam_conv(3)). The name of the authenticated user will be present in the PAM item PAM_USER. This item may be recovered with a call to pam_get_item(3).

The pamh argument is an authentication handle obtained by a prior call to pam_start(). The flags argument is the binary or of zero or more of the following values:

PAM_SILENT

Do not emit any messages.

PAM_DISALLOW_NULL_AUTHTOK

The PAM module service should return PAM_AUTH_ERR if the user does not have a registered authentication token.

3.1.7.2. RETURN VALUES

PAM_ABORT

The application should exit immediately after calling pam_end(3) first.

PAM_AUTH_ERR

The user was not authenticated.

PAM_CRED_INSUFFICIENT

For some reason the application does not have sufficient credentials to authenticate the user.

PAM_AUTHINFO_UNAVAIL

The modules were not able to access the authentication information. This might be due to a network or hardware failure etc.

PAM_MAXTRIES

One or more of the authentication modules has reached its limit of tries authenticating the user. Do not try again.

PAM_SUCCESS

The user was successfully authenticated.

PAM_USER_UNKNOWN

User unknown to authentication service.

3.1.8. Setting user credentials

```
#include <security/pam_appl.h>

int pam_setcred(  pamh,
                  flags);
```

pam_handle_t *pamh;
int flags;

3.1.8.1. DESCRIPTION

The pam_setcred function is used to establish, maintain and delete the credentials of a user. It should be called to set the credentials after a user has been authenticated and before a session is opened for the user (with pam_open_session(3)). The credentials should be deleted after the session has been closed (with pam_close_session(3)).

A credential is something that the user possesses. It is some property, such as a Kerberos ticket, or a supplementary group membership that make up the uniqueness of a given user. On a Linux system the user's UID and GID's are credentials too. However, it has been decided that these properties (along with the default supplementary groups of which the user is a member) are credentials that should be set directly by the application and not by PAM. Such credentials should be established, by the application, prior to a call to this function. For example, initgroups(2) (or equivalent) should have been performed.

Valid flags, any one of which, may be logically OR'd with PAM_SILENT, are:

PAM_ESTABLISH_CRED

Initialize the credentials for the user.

PAM_DELETE_CRED

Delete the user's credentials.

PAM_REINITIALIZE_CRED

Fully reinitialize the user's credentials.

PAM_REFRESH_CRED

Extend the lifetime of the existing credentials.

3.1.8.2. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_CRED_ERR

Failed to set user credentials.

PAM_CRED_EXPIRED

User credentials are expired.

PAM_CRED_UNAVAIL

Failed to retrieve user credentials.

PAM_SUCCESS

Data was successful stored.

PAM_SYSTEM_ERR

A NULL pointer was submitted as PAM handle, the function was called by a module or another system error occurred.

PAM_USER_UNKNOWN

User is not known to an authentication module.

3.1.9. Account validation management

```
#include <security/pam_appl.h>

int pam_acct_mgmt(  pamh,
                    flags);

pam_handle_t *pamh;
int flags;
```

3.1.9.1. DESCRIPTION

The pam_acct_mgmt function is used to determine if the user's account is valid. It checks for authentication token and account expiration and verifies access restrictions. It is typically called after the user has been authenticated.

The pamh argument is an authentication handle obtained by a prior call to pam_start(). The flags argument is the binary or of zero or more of the following values:

PAM_SILENT

Do not emit any messages.

PAM_DISALLOW_NULL_AUTHTOK

The PAM module service should return PAM_NEW_AUTHTOK_REQD if the user has a null authentication token.

3.1.9.2. RETURN VALUES

PAM_ACCT_EXPIRED

User account has expired.

PAM_AUTH_ERR

Authentication failure.

PAM_NEW_AUTHTOK_REQD

The user account is valid but their authentication token is expired. The correct response to this return-value is to require that the user satisfies the pam_chauthtok() function before obtaining service. It may not be possible for some applications to do this. In such cases, the user should be denied access until such time as they can update their password.

PAM_PERM_DENIED

Permission denied.

PAM_SUCCESS

The authentication token was successfully updated.

PAM_USER_UNKNOWN

User unknown to password service.

3.1.10. Updating authentication tokens

```
#include <security/pam_appl.h>

int pam_chauthtok(  pamh,
                    flags);

pam_handle_t *pamh;
int flags;
```

3.1.10.1.

DESCRIPTION

The pam_chauthtok function is used to change the authentication token for a given user (as indicated by the state associated with the handle pamh).

The pamh argument is an authentication handle obtained by a prior call to pam_start(). The flags argument is the binary or of zero or more of the following values:

PAM_SILENT

Do not emit any messages.

PAM_CHANGE_EXPIRED_AUTHTOK

This argument indicates to the modules that the user's authentication token (password) should only be changed if it has expired. If this argument is not passed, the application requires that all authentication tokens are to be changed.

3.1.10.2. RETURN VALUES

PAM_AUTHTOK_ERR

A module was unable to obtain the new authentication token.

PAM_AUTHTOK_RECOVERY_ERR

A module was unable to obtain the old authentication token.

PAM_AUTHTOK_LOCK_BUSY

One or more of the modules was unable to change the authentication token since it is currently locked.

PAM_AUTHTOK_DISABLE_AGING

Authentication token aging has been disabled for at least one of the modules.

PAM_PERM_DENIED

Permission denied.

PAM_SUCCESS

The authentication token was successfully updated.

PAM_TRY_AGAIN

Not all of the modules were in a position to update the authentication token(s). In such a case none of the user's authentication tokens are updated.

PAM_USER_UNKNOWN

User unknown to password service.

3.1.11. Start PAM session management

```
#include <security/pam_appl.h>

int pam_open_session(  pamh,
                       flags);

pam_handle_t *pamh;
int flags;
```

3.1.11.1. DESCRIPTION

The pam_open_session function sets up a user session for a previously successful authenticated user. The session should later be terminated with a call to pam_close_session(3).

It should be noted that the effective uid, geteuid(2). of the application should be of sufficient privilege to perform such tasks as creating or mounting the user's home directory
for example.

The flags argument is the binary or of zero or more of the following values:

PAM_SILENT

Do not emit any messages.

3.1.11.2. RETURN VALUES

PAM_ABORT

General failure.

PAM_BUF_ERR

Memory buffer error.

PAM_SESSION_ERR

Session failure.

PAM_SUCCESS

Session was successful created.

3.1.12. terminating PAM session management

```
#include <security/pam_appl.h>

int pam_close_session( pamh,
                       flags);

pam_handle_t *pamh;
int flags;
```

3.1.12.1. DESCRIPTION

The pam_close_session function is used to indicate that an authenticated session has ended. The session should have been created with a call to pam_open_session(3).

It should be noted that the effective uid, geteuid(2). of the application should be of sufficient privilege to perform such tasks as unmounting the user's home directory for example.

The flags argument is the binary or of zero or more of the following values:

PAM_SILENT

Do not emit any messages.

3.1.12.2.
RETURN VALUES

PAM_ABORT

General failure.

PAM_BUF_ERR

Memory buffer error.

PAM_SESSION_ERR

Session failure.

PAM_SUCCESS

Session was successful terminated.

3.1.13. Set or change PAM environment variable

```
#include <security/pam_appl.h>

int pam_putenv(  pamh,
                 name_value);

pam_handle_t *pamh;
const char *name_value;
```

3.1.13.1. DESCRIPTION

The pam_putenv function is used to add or change the value of PAM environment variables as associated with the pamh handle.

The pamh argument is an authentication handle obtained by a prior call to pam_start(). The name_value argument is a single NUL terminated string of one of the following forms:

NAME=value of variable

In this case the environment variable of the given NAME is set to the indicated value: value of variable. If this variable is already known, it is overwritten. Otherwise it is added to the PAM environment.

NAME=

This function sets the variable to an empty value. It is listed separately to indicate that this is the correct way to achieve such a setting.

NAME

Without an '=' the pam_putenv() function will delete the corresponding variable from the PAM environment.

pam_putenv() operates on a copy of name_value, which means in contrast to putenv(3), the application is responsible for freeing the data.

3.1.13.2. RETURN VALUES

PAM_PERM_DENIED

Argument name_value given is a NULL pointer.

PAM_BAD_ITEM

Variable requested (for deletion) is not currently set.

PAM_ABORT

The pamh handle is corrupt.

PAM_BUF_ERR

Memory buffer error.

PAM_SUCCESS

The environment variable was successfully updated.

3.1.14. Get a PAM environment variable

```
#include <security/pam_appl.h>

const char *pam_getenv( pamh,
                        name);

pam_handle_t *pamh;
const char *name;
```

3.1.14.1. DESCRIPTION

The pam_getenv function searches the PAM environment list as associated with the handle pamh for an item that matches the string pointed to by name and returns a pointer to the value of the environment variable. The application is not allowed to free the data.

3.1.14.2. RETURN VALUES

The pam_getenv function returns NULL on failure.

3.1.15. Getting the PAM environment

```
#include <security/pam_appl.h>

char **pam_getenvlist(  pamh);
```

```
pam_handle_t *pamh;
```

3.1.15.1. DESCRIPTION

The pam_getenvlist function returns a complete copy of the PAM environment as associated with the handle pamh. The PAM environment variables represent the contents of the regular environment variables of the authenticated user when service is granted.

The format of the memory is a malloc()'d array of char pointers, the last element of which is set to NULL. Each of the non-NULL entries in this array point to a NUL terminated and malloc()'d char string of the form: "name=value".

It should be noted that this memory will never be free()'d by libpam. Once obtained by a call to pam_getenvlist, it is the responsibility of the calling application to free() this memory.

It is by design, and not a coincidence, that the format and contents of the returned array matches that required for the third argument of the execle(3) function call.

3.1.15.2. RETURN VALUES

The pam_getenvlist function returns NULL on failure.

3.2. What is expected of an application

3.2.1. The conversation function

```
#include <security/pam_appl.h>

struct pam_message {
  int msg_style;
  const char *msg;
};

struct pam_response {
  char *resp;
  int resp_retcode;
};

struct pam_conv {
  int (*conv)(int num_msg, const struct pam_message **msg,
              struct pam_response **resp, void *appdata_ptr);
  void *appdata_ptr;
```

};

3.2.1.1. DESCRIPTION

The PAM library uses an application-defined callback to allow a direct communication between a loaded module and the application. This callback is specified by the struct pam_conv passed to pam_start(3) at the start of the transaction.

When a module calls the referenced conv() function, the argument appdata_ptr is set to the second element of this structure.

The other arguments of a call to conv() concern the information exchanged by module and application. That is to say, num_msg holds the length of the array of pointers, msg. After a successful return, the pointer resp points to an array of pam_response structures, holding the application supplied text. The resp_retcode member of this struct is unused and should be set to zero. It is the caller's responsibility to release both, this array and the responses themselves, using free(3). Note, *resp is a struct pam_response array and not an array of pointers.

The number of responses is always equal to the num_msg conversation function argument. This does require that the response array is free(3)'d after every call to the conversation function. The index of the responses corresponds directly to the prompt index in the pam_message array.

On failure, the conversation function should release any resources it has allocated, and return one of the predefined PAM error codes.

Each message can have one of four types, specified by the msg_style member of struct pam_message:

PAM_PROMPT_ECHO_OFF

Obtain a string without echoing any text.

PAM_PROMPT_ECHO_ON

Obtain a string whilst echoing text.

PAM_ERROR_MSG

Display an error message.

PAM_TEXT_INFO

Display some text.

The point of having an array of messages is that it becomes possible to pass a number of things to the application in a single call from the module. It can also be convenient for the application that related things come at once: a windows based application can then present a single form with many messages/ prompts on at once.

In passing, it is worth noting that there is a discrepancy between the way Linux-PAM handles the const struct pam_message **msg conversation function argument and the way that Solaris' PAM (and derivatives, known to include HP/ UX, are there others?) does. Linux-PAM interprets the msg argument as entirely
equivalent to the following prototype const struct pam_message *msg[] (which, in spirit, is consistent with the commonly used prototypes for argv argument to the familiar main() function: char **argv; and char *argv[]). Said another way Linux-PAM interprets the msg argument as a pointer to an array of num_msg read only 'struct pam_message' pointers. Solaris' PAM implementation interprets this argument as a pointer to a pointer to an array of num_msg pam_message structures. Fortunately, perhaps, for most module/application developers when num_msg has a value of one these two definitions are entirely equivalent. Unfortunately, casually raising this number to two has led to unanticipated compatibility problems.

For what its worth the two known module writer work-arounds for trying to maintain source level compatibility with both PAM implementations are:

- never call the conversation function with num_msg greater than one.

- set up msg as doubly referenced so both types of conversation function can find the messages. That is, make

```
msg[n] = & (( *msg )[n])
```

3.2.1.2. RETURN VALUES

PAM_BUF_ERR

Memory buffer error.

PAM_CONV_ERR

Conversation failure. The application should not set *resp.

PAM_SUCCESS

Success.

3.3. Programming notes

Note, all of the authentication service function calls accept the token PAM_SILENT, which instructs the modules to not send messages to the application. This token can be logically OR'd with any one of the permitted tokens specific to the individual function calls. PAM_SILENT does not override the prompting of the user for passwords etc., it only stops informative messages from being generated.

Chapter 4. Security issues of Linux-PAM

PAM, from the perspective of an application, is a convenient API for authenticating users. PAM modules generally have no increased privilege over that possessed by the application that is making use of it. For this reason, the application must take ultimate responsibility for protecting the environment in which PAM operates.

A poorly (or maliciously) written application can defeat any Linux-PAM module's authentication mechanisms by simply ignoring it's return values. It is the applications task and responsibility to grant privileges and access to services. The Linux-PAM library simply assumes the responsibility of authenticating the user; ascertaining that the user is who they say they are. Care should be taken to anticipate all of the documented behavior of the Linux-PAM library functions. A failure to do this will most certainly lead to a future security breach.

4.1. Care about standard library calls

In general, writers of authorization-granting applications should assume that each module is likely to call any or all 'libc' functions. For 'libc' functions that return pointers to static/dynamically allocated structures (ie. the library allocates the memory and the user is not expected to 'free()' it) any module call to this function is likely to corrupt a pointer previously obtained by the application. The application programmer should either re-call such a 'libc' function after a call to the Linux-PAM library, or copy the structure contents to some safe area of memory before passing control to the Linux-PAM library.

Two important function classes that fall into this category are getpwnam(3) and syslog(3).

4.2. Choice of a service name

When picking the service-name that corresponds to the first entry in the Linux-PAM configuration file, the application programmer should avoid the temptation of choosing something related to argv[0]. It is a trivial matter for any user to invoke any application on a system under a different name and this should not be permitted to cause a security breach.

In general, this is always the right advice if the program is setuid, or otherwise more privileged than the user that invokes it. In some cases, avoiding this advice is convenient, but as an author of such an application, you
should consider well the ways in which your program will be installed and used. (Its often the case that programs are not intended to be setuid, but end up being installed that way for convenience. If your program falls into this category, don't fall into the trap of making this mistake.)

To invoke some target application by another name, the user may symbolically link the target application with the desired name. To be precise all the user need do is, ln -s /target/application ./preferred_name and then run ./ preferred_name.

By studying the Linux-PAM configuration file(s), an attacker can choose the preferred_name to be that of a service enjoying minimal protection; for example a game which uses Linux-PAM to restrict access to certain hours of the day. If the service-name were to be linked to the filename under which the service was invoked, it is clear that the user is effectively in the position of dictating which authentication scheme the service uses. Needless to say, this
is not a
secure situation.

The conclusion is that the application developer should carefully define the service-name of an application. The safest thing is to make it a single hard-wired name.

4.3. The conversation function

Care should be taken to ensure that the conv() function is robust. Such a function is provided in the library libpam_misc (see below).

4.4. The identity of the user

The Linux-PAM modules will need to determine the identity of the user who requests a service, and the identity of the user who grants the service. These two users will seldom be the same. Indeed there is generally a third user identity to be considered, the new (assumed) identity of the user once the service is granted.

The need for keeping tabs on these identities is clearly an issue of security. One convention that is actively used by some modules is that the identity of

the user requesting a service should be the current UID (user ID) of the
running process; the identity of the privilege granting
user is the EUID
(effective user ID) of the running process; the identity of the user, under
whose name the service will be executed, is given by the contents of the
PAM_USER pam_get_item(3). Note, modules can change the values of PAM_USER and
PAM_RUSER during any of the pam_*() library calls. For this reason, the
application should take care to use the pam_get_item() every time it wishes to
establish who the authenticated user is (or will currently be).

For network-serving databases and other applications that provide their own
security model (independent of the OS kernel) the above scheme is insufficient
to identify the requesting user.

A more portable solution to storing the identity of the requesting user is to
use the PAM_RUSER pam_get_item(3). The application should supply this value
before attempting to authenticate the user with pam_authenticate(). How well
this name can be trusted will ultimately be at the discretion of the local
administrator (who configures PAM for
your application) and a selected module
may attempt to override the value where it can obtain more reliable data. If an
application is unable to determine the identity of the requesting entity/user,
it should not call pam_set_item(3) to set PAM_RUSER.

In addition to the PAM_RUSER item, the application should supply the PAM_RHOST
(requesting host) item. As a general rule, the following convention for its
value can be assumed: NULL = unknown; localhost = invoked directly from the
local system; other.place.xyz = some component of the user's connection
originates from this remote/requesting host. At present, PAM has no established
convention for indicating whether the application supports a trusted path to
communication from this host.

4.5. Sufficient resources

Care should be taken to ensure that the proper execution of an application is
not compromised by a lack of system resources. If an application is unable to
open sufficient files to perform its service, it should fail gracefully,
or
request additional resources. Specifically, the quantities manipulated by the
setrlimit(2) family of commands should be taken into consideration.

This is also true of conversation prompts. The application should not accept
prompts of arbitrary length with out checking for resource allocation failure
and dealing with such extreme conditions gracefully and in a manner that
preserves the PAM API. Such tolerance may be especially important when
attempting to track a malicious adversary.

Chapter 5. A library of miscellaneous helper functions

To aid the work of the application developer a library of miscellaneous functions is provided. It is called libpam_misc, and contains a text based conversation function, and routines for enhancing the standard PAM-environment variable support.

The functions, structures and macros, made available by this library can be defined by including <security/pam_misc.h>. It should be noted that this library is specific to Linux-PAM and is not referred to
in the defining DCE-RFC
(see See also) below.

5.1. Functions supplied

5.1.1. Text based conversation function

```
#include <security/pam_misc.h>

int misc_conv(  num_msg,
                msgm,
                response,
                appdata_ptr);

int num_msg;
const struct pam_message **msgm;
struct pam_response **response;
void *appdata_ptr;
```

5.1.1.1. DESCRIPTION

The misc_conv function is part of libpam_misc and not of the standard libpam library. This function will prompt the user with the appropriate comments and obtain the appropriate inputs as directed by authentication modules.

In addition to simply slotting into the appropriate pam_conv(3), this function provides some time-out facilities. The function exports five variables that can be used by an application programmer to limit the amount of time this conversation function will spend waiting for the user to type something. The five variables are as follows:

```
time_t pam_misc_conv_warn_time;
```

This
variable contains the time (as returned by time(2)) that the user should be first warned that the clock is ticking. By default it has the value 0, which indicates that no such warning will be given. The application may set its value to sometime in the future, but this should be

done prior to passing control to the Linux-PAM library.

const char *pam_misc_conv_warn_line;

Used in conjunction with pam_misc_conv_warn_time, this variable is a pointer to the string that will be displayed when it becomes time to warn the user that the timeout is approaching. Its default value is a translated version of “...Time is running out...”, but this can be changed by the application prior to passing control to Linux-PAM.

time_t pam_misc_conv_die_time;

This variable contains the time (as returned by time(2)) that the will time out. By default it has the value 0, which indicates that the conversation function will not timeout. The application may set its value to sometime in the future, but this should be done prior to passing control to the Linux-PAM library.

const char *pam_misc_conv_die_line;

Used in conjunction with pam_misc_conv_die_time, this variable is a pointer to the string that will be displayed when the conversation times out. Its default value is a translated version of “...Sorry, your time is up!”, but this can be changed by the application prior to passing control to Linux-PAM.

int pam_misc_conv_died;

Following a return from the Linux-PAM library, the value of this variable indicates whether the conversation has timed out. A value of 1 indicates the time-out occurred.

The following two function pointers are available for supporting binary prompts in the conversation function. They are optimized for the current incarnation of the libpamc library and are subject to change.

int (*pam_binary_handler_fn)(void *appdata, pamc_bp_t *prompt_p);

This function pointer is initialized to NULL but can be filled with a function that provides machine-machine (hidden) message exchange. It is intended for use with hidden authentication protocols such as RSA or Diffie-Hellman key exchanges. (This is still under development.)

int (*pam_binary_handler_free)(void *appdata, pamc_bp_t *delete_me);

This function pointer is initialized to PAM_BP_RENEW(delete_me, 0, 0), but

can be redefined as desired by the application.

5.1.2. Transcribing an environment to that of PAM

```
#include <security/pam_misc.h>

int pam_misc_paste_env( pamh,
                        user);

pam_handle_t *pamh;
const char * const *user;
```

5.1.2.1. DESCRIPTION

This function takes the supplied list of environment pointers and uploads its contents to the PAM environment. Success is indicated by PAM_SUCCESS.

5.1.3. Liberating a locally saved environment

```
#include <security/pam_misc.h>

int pam_misc_drop_env(  env);

char **env;
```

5.1.3.1. DESCRIPTION

This function is defined
to complement the pam_getenvlist(3) function. It
liberates the memory associated with env, overwriting with 0 all memory before free()ing it.

5.1.4. BSD like PAM environment variable setting

```
#include <security/pam_misc.h>

int pam_misc_setenv( pamh,
                     name,
                     value,
                     readonly);

pam_handle_t *pamh;
const char *name;
const char *value;
int readonly;
```

5.1.4.1. DESCRIPTION

This function performs a task equivalent to pam_putenv(3), its syntax is, however, more like the BSD style function; setenv(). The name and value are concatenated with an '=' to form a name=value and passed to pam_putenv(). If, however, the PAM variable is already set, the replacement will only be applied if the last argument, readonly, is zero.

Chapter 6. Porting legacy applications

The point of PAM is that the application is not supposed to have any idea how the attached authentication modules will choose to authenticate the user. So all they can do is provide a conversation function that will talk directly to the user(client) on the modules' behalf.

Consider the case that you plug a retinal scanner into the login program. In this situation the user would be prompted: "please look into the scanner". No username or password would be needed - all this information could be deduced from the scan and a database lookup. The point is that the retinal scanner is an ideal task for a "module".

While it is true that a pop-daemon program is designed with the POP protocol in mind and no-one ever considered attaching a retinal scanner to it, it is also the case that the "clean" PAM'ification of such a daemon would allow for the possibility of a scanner module being be attached to it. The point being that the "standard" pop-authentication protocol(s) [which will be needed to satisfy inflexible/legacy clients] would be supported by inserting an appropriate pam_qpopper module(s). However, having rewritten popd once in this way any new protocols can be implemented in-situ.

One simple test of a ported application would be to insert the pam_permit module and see if the application demands you type a password... In such a case, xlock would fail to lock the terminal - or would at best be a screen-saver, ftp would give password free access to all etc.. Neither of these is a very secure thing to do, but they do illustrate how much flexibility PAM puts in the hands of the local admin.

The key issue, in doing things correctly, is identifying what is part of the authentication procedure (how many passwords etc..) the exchange protocol (prefixes to prompts etc., numbers like 331 in the case of ftpd) and what is part of the service that the application delivers. PAM really needs to have total control in the authentication "procedure", the conversation function should only deal with reformatting user prompts and extracting responses from raw input.

Chapter 7. Glossary of PAM related terms

The following are a list
of terms used within this document.

Authentication token

Generally, this is a password. However, a user can authenticate him/herself in a variety of ways. Updating the user's authentication token thus corresponds to refreshing the object they use to authenticate themself with the system. The word password is avoided to keep open the possibility that the authentication involves a retinal scan or other non-textual mode of challenge/response.

Credentials

Having successfully authenticated the user, PAM is able to establish certain characteristics/attributes of the user. These are termed credentials. Examples of which are group memberships to perform privileged tasks with, and tickets in the form of environment variables etc. . Some user-credentials, such as the user's UID and GID (plus default group memberships) are not deemed to be PAM-credentials. It is the responsibility of the application to grant these directly.

Chapter 8. An
example application

To get a flavor of the way a Linux-PAM application is written we include the following example. It prompts the user for their password and indicates whether their account is valid on the standard output, its return code also indicates the success (0 for success; 1 for failure).

```
/*
 This program was contributed by Shane Watts
 [modifications by AGM and kukuk]

 You need to add the following (or equivalent) to the
 /etc/pam.d/check_user file:
 # check authorization
 auth       required     pam_unix.so
 account    required     pam_unix.so
*/

#include <security/pam_appl.h>
#include <security/pam_misc.h>
#include <stdio.h>

static struct pam_conv conv = {
```

```
  misc_conv,
  NULL
};

int main(int argc, char *argv[])
{
  pam_handle_t *pamh=NULL;
  int retval;
  const char *user="nobody";

  if(argc == 2) {
    user = argv[1];
  }

  if(argc > 2) {
    fprintf(stderr, "Usage: check_user [username]\n");
    exit(1);
  }

  retval = pam_start("check_user",
 user, &conv, &pamh);

  if (retval == PAM_SUCCESS)
    retval = pam_authenticate(pamh, 0);    /* is user really user? */

  if (retval == PAM_SUCCESS)
    retval = pam_acct_mgmt(pamh, 0);       /* permitted access? */

  /* This is where we have been authorized or not. */

  if (retval == PAM_SUCCESS) {
    fprintf(stdout, "Authenticated\n");
  } else {
    fprintf(stdout, "Not Authenticated\n");
  }

  if (pam_end(pamh,retval) != PAM_SUCCESS) {     /* close Linux-PAM */
    pamh = NULL;
    fprintf(stderr, "check_user: failed to release authenticator\n");
    exit(1);
  }

  return ( retval == PAM_SUCCESS ? 0:1 );       /* indicate success */
}
```

Chapter 9. Files

/usr/include/security/pam_appl.h

Header file with interfaces for Linux-PAM applications.

/usr/include/security/pam_misc.h

Header file for useful library functions for making applications easier to write.

Chapter 10. See also

- The Linux-PAM System Administrators' Guide.
- The Linux-PAM Module Writers' Guide.
- The V. Samar and R. Schemers (SunSoft), ``UNIFIED LOGIN WITH PLUGGABLE AUTHENTICATION MODULES", Open Software Foundation Request For Comments 86.0, October 1995.

Chapter 11. Author/acknowledgments

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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
*
 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
*
 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
*
 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/package-info.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
*
 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
*
 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslContext.java

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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
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* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
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 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
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 /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
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* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
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* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
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* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
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* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
*
 /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java

* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
*
/netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/package-info.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
*
/netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /netty-codec-dns-4-1-100-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java

1.369 netty-transport-native-unix-common 4.1.100.Final

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jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Buffer.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_buffer.h
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jar/io/netty/channel/unix/GenericUnixChannelOption.java
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jar/io/netty/channel/unix/IntegerUnixChannelOption.java
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* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/package-info.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Unix.java
*
/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/IovArray.java
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* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
*
 /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java
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* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_errors.h
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_filedescriptor.h
*
 /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_socket.h
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_filedescriptor.c
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_socket.c
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_errors.c
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Errors.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
*
 /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-100-final-sources-

jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Socket.java
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* /netty-transport-native-unix-common-4-1-100-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
*
 /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Limits.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_limits.h
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_util.c
* /netty-transport-native-unix-common-4-1-100-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
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jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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1.370 netty-transport-classes-epoll 4.1.100.Final

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

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

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    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

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jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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 /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /netty-transport-classes-epoll-4-1-100-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
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* /netty-transport-classes-epoll-4-1-100-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

1.371 netty-resolver-dns 4.1.100.Final

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* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java
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* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
*
 /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
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* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
*
 /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/Cache.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
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* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java
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 /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsCache.java
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* /netty-resolver-dns-4-1-100-final-sources-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
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 /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
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jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
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* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
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jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
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* /netty-resolver-dns-4-1-100-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java
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1.372 netty-codec-http 4.1.100.Final

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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java

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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
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jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpObject.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
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* /netty-codec-http-4-1-100-final-sources-
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* /netty-codec-http-4-1-100-final-sources-
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java
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 /netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
*
 /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java

* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
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* /netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
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1.373 netty-handler-proxy 4.1.100.Final

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* /netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/package-info.java
*
 /netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
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1.374 netty-codec-socks 4.1.100.Final

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* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
*
/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
*
/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
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Found in path(s):
* /netty-codec-socks-4-1-100-final-sources-jar/META-INF/maven/io.netty/netty-codec-socks/pom.xml

1.375 jackson-databind 2.15.3

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1.376 jackson-annotations 2.15.3

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1.377 jackson-dataformat-yaml 2.15.3

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.379 json-java 20231013

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1.380 libcxxabi 1.1.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr
ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
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o;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/
libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.nativ
e.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.na
tive.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy
.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial
.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org
.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
,org.xerial.snappy.native.Mac.aarch64,org.xerial.snappy.native.Mac.x8
6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
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arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.

Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /snappy-java-1-1-10-5-jar/META-INF/MANIFEST.MF

1.381 jackson-xc 2.15.3

1.381.1 Available under license :

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1.382 snappy-java 1.1.7

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 */
```

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*--------------------------------------------------------------------------*/
```

Found in path(s):
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyBundleActivator.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyErrorCode.java
*
/snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/BitShuffleNative.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/BitShuffleType.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyOutputStream.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyError.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/Snappy.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/BitShuffle.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/package-info.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyException.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyLoader.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyInputStream.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyCodec.java
* /snappy-java-1-1-7-sources-2-jar/org/xerial/snappy/SnappyNative.java

1.383 python-setuptools 65.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now		PSF	yes

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`fastjsonschema`
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1.385 wrapper 3.2.3

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1.386 python-certifi 2023.07.22

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.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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1.389 sh 1.14.3

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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpTlsUpgrader.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OutboundFlowController.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpSettingsUtil.java
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/grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/Headers.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpClientTransport.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/framed/ErrorCode.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/framed/Variant.java
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 /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/framed/Http2.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/NegotiationType.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpChannelProvider.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpWritableBuffer.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/ExceptionHandlingFrameWriter.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/AsyncSink.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/ConnectionSpec.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/TlsVersion.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/CipherSuite.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/framed/FrameReader.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/internal/framed/FrameWriter.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/InternalOkHttpChannelBuilder.java

* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/SslSocketFactoryChannelCredentials.java
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* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/TlsServerHandshakerSocketFactory.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/InternalOkHttpServerBuilder.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpServerTransport.java
*
 /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpServerStream.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/ForwardingFrameWriter.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/SslSocketFactoryServerCredentials.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/HandshakerSocketFactory.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/OkHttpServerBuilder.java
* /grpc-okhttp-1-58-0-sources-jar/io/grpc/okhttp/PlaintextHandshakerSocketFactory.java
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1.393 grpc-protobuf 1.58.0

1.393.1 Available under license :

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1.394 python-pip 23.3.1

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization

created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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Individuals submitting their patches under 2-clause BSD:

David Allsopp David.Allsopp@cl.cam.ac.uk
Erik M. Bray erik.bray@lri.fr
Brian Inglis Brian.Inglis@SystematicSw.ab.ca
Daniel Santos daniel.santos@pobox.com
Sergejs Lukanihins slukanihin@gmail.com
J.H.
van de Water houder@xs4all.nl
Hans-Bernhard Brker HBBroeker@t-online.de
David Macek david.macek.0@gmail.com
Ben Wijen ben@wijen.net

==========

Individuals who signed the former Cygwin Copyright Assignment:

AJ Reins tbisp@qwest.net
Brian E. Dessent brian@dessent.net
Brian Kenneth Ford Brian.Ford@FlightSafety.com
Charles K. Moore keithmo@exmsft.com
Christian Franke franke@computer.org
Christian Lestrade christian.lestrade@free.fr
Christopher Faylor me@cgf.cx
Christopher January chris@atomice.net
Conrad Scott conrad.scott@dsl.pipex.com
Corinna Vinschen corinna@vinschen.de
Craig Iain McGeachie slapdau@yahoo.com.au
David Korn dave.korn.cygwin@gmail.com
Davis Euresti davie@alum.mit.edu
Dennis Vshivkov walrus@amur.ru
Elfyn McBratney elfyn@ubertales.co.uk
Eric Blake eblake@redhat.com
Ernie Coskrey ernie.coskrey@steeleye.com
Gerd Spalink Gerd.Spalink@t-online.de
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Honisch hhonisch@users.sourceforge.net
Igor Pechtchanski pechtcha@cs.nyu.edu
Jacek Trzcinski jacek@certum.pl
Jeffrey Eric Altman jaltman@openafs.org
Jerry D. Hedden jerry@hedden.us
Joe Loh joel@pivot3.com
Johan Rydberg johan@rydberg.com
Johannes Schindelin johannes.schindelin@gmx.de
John Hood cgull@glup.org

Jon Turney jon.turney@dronecode.org.uk
Yoni Londner yonihola2@gmail.com
Joseph H. Buehler jbuehler@hekimian.com
Joshua Daniel Franklin joshuadfranklin@yahoo.com
Ken Brown kbrown@cornell.edu
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Max Kaehn slothman@electric-cloud.com
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.397 spring-retry 2.0.4

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You may modify your copy or copies of the Library or any portion
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@enumerate a
@item

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@item
You must cause the files modified to carry prominent notices
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@item
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 cause the whole of the work to be licensed at no
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@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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@item
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creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

@item
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@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
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Accompany the work with a written offer, valid for at
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@item
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@page
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Ty Coon, President of Vice
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 that you changed the files and the date of any change.

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1 and 2 above on a medium customarily used for software interchange; or,

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years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
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@end enumerate

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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample

Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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- the GNU.Gettext.dll C# library,
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1.401 asm 9.6

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* /asm-9-6-sources-jar/org/objectweb/asm/RecordComponentWriter.java
*
 /asm-9-6-sources-jar/org/objectweb/asm/Label.java
* /asm-9-6-sources-jar/org/objectweb/asm/TypePath.java
* /asm-9-6-sources-jar/org/objectweb/asm/RecordComponentVisitor.java
* /asm-9-6-sources-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-6-sources-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-9-6-sources-jar/org/objectweb/asm/Type.java
* /asm-9-6-sources-jar/org/objectweb/asm/ClassVisitor.java
* /asm-9-6-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-9-6-sources-jar/org/objectweb/asm/Attribute.java
* /asm-9-6-sources-jar/org/objectweb/asm/ClassTooLargeException.java
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* /asm-9-6-sources-jar/org/objectweb/asm/FieldVisitor.java
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*

/asm-9-6-sources-jar/org/objectweb/asm/FieldWriter.java
* /asm-9-6-sources-jar/org/objectweb/asm/Context.java
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* /asm-9-6-sources-jar/org/objectweb/asm/ModuleWriter.java
* /asm-9-6-sources-jar/org/objectweb/asm/ModuleVisitor.java
* /asm-9-6-sources-jar/org/objectweb/asm/TypeReference.java
* /asm-9-6-sources-jar/org/objectweb/asm/Constants.java
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1.402 jetty-proxy 9.4.52.v20230823

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.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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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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

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org.apache.taglibs:taglibs-standard-spec
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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

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 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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1.414 utmps 0.1.2.2-r0

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1.415 brotli 1.1.0-r1

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1.416 musl 1.2.4_git20230717-r4

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Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
Arvid Picciani

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Michael Clark
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Nicholas J. Kain
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Version 1.0

Last updated: 28 June 2022

1.422 log4j-slf4j2-impl 2.21.1

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src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
```

src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
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The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see files `src/bdf/README` and `src/pcf/README`). The same holds for the source code files `src/base/fthash.c` and `include/freetype/internal/fthash.h`; they were part of the BDF driver in earlier FreeType versions.

The gzip module uses the zlib license (see `src/gzip/zlib.h`) which too is compatible to the above two licenses.

The files `src/autofit/ft-hb.c` and `src/autofit/ft-hb.h` contain code taken almost verbatim from the HarfBuzz file `hb-ft.cc`, which uses the 'Old MIT' license, compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds)
is in the public domain.

--- end of LICENSE.TXT ---

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Version 2, June 1991

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1.426 alpine-baselayout 3.4.3-r2

1.426.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 3
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
pkgname=perl-bsd-resource
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=9
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL INSTALLDIRS=vendor
 make
}
```

```
check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.2.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
```

}

sha512sums="
7be7ebab1d980063ab846a228c5247570d0e23ed52f4362ef7d88eb7a59274e6f74653b4e9cff8225597693087d750c5bf7fcf604440d8d3d2976ebcd7442c24
  license-expression-30.2.0.tar.gz
"
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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
Maintainer: Jakub Panek <me@panekj.dev>
pkgname=cargo-license
pkgver=0.5.1
pkgrel=4
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all !s390x !riscv64" # rust
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

```
prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
4d8d430df91c6aac53d2305d3125eaeee492324e85c4db29d33d452b3848f33a55088e71247c6c72c6a62f4e924a374a
115bf14b4f398e7950b9eb52415f2244  cargo-license-0.5.1.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --localstatedir=/var/lib # it really shouldn't be in /var
 make
}
```

```
package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.22
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt; do
  local license=${i##*/}
```

```
 echo
${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
b213fe66699770d75a4c994a01a5c08325751423516c2fb871088a47e7e7ce605736064f5ce3a63dc1d3c462271832db
7bc464ac968df1888f9823787964c786  license-list-data-3.22.tar.gz
"
```

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```
http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 python3 setup.py build
}

package() {
 python3 setup.py install --skip-build --root="$pkgdir"
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "
```

```
builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

mini_sendmail - accept email on behalf of real sendmail

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1.427 xz-libs 5.4.5-r0

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1.428 musl-utils 1.2.4_git20230717-r4

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Ada Worcester
Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
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Bartosz Brachaczek
Benjamin Peterson
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Chris Spiegel

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Daniel Micay
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Mahesh Bodapati
Markus Wichmann
Masanori Ogino
Michael Clark
Michael Forney
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1.430 boringssl 2.0.61.Final

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  ${project.name}

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  Maven URL:
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\u001B[1mDESCRIPTION\u001B[0m
  The whiteboard extender, extends the HTTP Service with the capability to register HTTP Services
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* /pax-web-extender-whiteboard-8-0-22-sources-jar/org/ops4j/pax/web/extender/whiteboard/runtime/DefaultSecurityConstraintMapping.java

1.433 pax-web-jetty-keycloak 8.0.22

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org.ops4j.pax.web.keycloak.jetty.KeycloakAuthenticatorService

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1.434 keycloak-common 8.0.22

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org.keycloak.crypto.def.DefaultCryptoProvider

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#

org.keycloak.adapters.authorization.cip.ClaimsInformationPointProviderFactory
org.keycloak.adapters.authorization.cip.HttpClaimInformationPointProviderFactory

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org.keycloak.adapters.authentication.ClientIdAndSecretCredentialsProvider
org.keycloak.adapters.authentication.JWTClientCredentialsProvider
org.keycloak.adapters.authentication.JWTClientSecretCredentialsProvider

Found in path(s):
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1.435 keycloak 8.0.22

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org.keycloak.crypto.def.DefaultCryptoProvider
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org.keycloak.adapters.authorization.cip.ClaimsInformationPointProviderFactory
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org.keycloak.adapters.authentication.ClientIdAndSecretCredentialsProvider
org.keycloak.adapters.authentication.JWTClientCredentialsProvider
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Found in path(s):
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1.436 pax-jdbc-teradata 1.5.6

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1.437 pax-logging-log4j2 2.2.3

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jar/org/apache/logging/log4j/core/appender/db/jdbc/DataSourceConnectionSource.java
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 /pax-logging-log4j2-2-2-3-sources-jar/org/apache/logging/log4j/core/config/status/StatusConfiguration.java
* /pax-logging-log4j2-2-2-3-sources-jar/org/apache/logging/log4j/core/impl/ThrowableProxy.java
* /pax-logging-log4j2-2-2-3-sources-jar/org/apache/logging/log4j/core/pattern/DatePatternConverter.java
* /pax-logging-log4j2-2-2-3-sources-jar/org/apache/logging/log4j/core/appender/db/jdbc/JdbcDatabaseManager.java
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1.438 jetty-jmx 9.4.52.v20230823

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

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* 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
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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
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 licensed.

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

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

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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
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Found in path(s):
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/elements/EventListenerModel.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/elements/ElementModel.java
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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/package-info.java
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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/ContextParamsChange.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/ContextStopChange.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/ContextStartChange.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/SecurityConfigChange.java
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/** {@code <transport-guarantee><user-data-constraint>}. INTEGRAL and CONFIDENTIAL are in practice
equivalent */
```

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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/elements/SecurityConstraintModel.java
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#
\u001B[1mSYNOPSIS\u001B[0m
  ${project.name}

  ${project.description}

  Maven URL:
    \u001B[33mmvn:${project.groupId}/${project.artifactId}/${project.version}\u001B[0m

\u001B[1mDESCRIPTION\u001B[0m
  The spi bundle provides the external usable API.

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* /pax-web-spi-8-0-22-sources-jar/OSGI-INF/bundle.info
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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/DynamicRegistrations.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/config/SessionConfiguration.java
*
 /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/ContainerInitializerEventData.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/DefaultSessionCookieConfig.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/config/ResourceConfiguration.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiHttpServletRequestWrapper.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/OsgiContextModelChange.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/context/package-info.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/ServerEvent.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/DefaultTaglibDescriptor.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/util/Utils.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/elements/package-info.java
*
 /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/WebApplicationEvent.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiInitializedServlet.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/package-info.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/ServletEventData.java
* /pax-web-spi-8-0-22-sources-
jar/org/ops4j/pax/web/service/spi/model/views/DynamicJEEWebContainerView.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/whiteboard/WhiteboardWebContainerView.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/config/SecurityConfiguration.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/ErrorPageEventData.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiServletContextClassLoader.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiInitializedFilter.java
*
 /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/FilterModelChange.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/context/DefaultServletContextHelper.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/ServletContextModelChange.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/util/WebContainerManager.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/SCIWrapper.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/WebElementEventData.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/package-info.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/package-info.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/dynamic/DynamicServletRegistration.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/JspEventData.java
*

/pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/RegisteringContainerInitializer.java
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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/config/LogConfiguration.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/DefaultJspPropertyGroupDescriptor.java
* /pax-web-spi-8-0-22-sources-
jar/org/ops4j/pax/web/service/spi/servlet/dynamic/DynamicEventListenerRegistration.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/dynamic/DynamicFilterRegistration.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/task/Change.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/ServerState.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiFilterChain.java
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/pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/events/EventListenerEventData.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/elements/SessionConfigurationModel.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/Default404Servlet.java
* /pax-web-spi-8-0-22-sources-
jar/org/ops4j/pax/web/service/spi/context/UniqueWebContainerContextWrapper.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/ContextKey.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiDynamicServletContext.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/servlet/OsgiScopedServletContext.java
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jar/org/ops4j/pax/web/service/spi/context/UniqueMultiBundleWebContainerContextWrapper.java
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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/ModelRegistrationTask.java
* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/ServletContextModel.java
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* /pax-web-spi-8-0-22-sources-jar/org/ops4j/pax/web/service/spi/model/ModelRegistrationException.java
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1.442 pax-web-api 8.0.22

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1.444 apache-karaf-service-guard 4.4.4

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1.445 pax-jdbc-pool-transx 1.5.6

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Found in path(s):
* /pax-jdbc-pool-transx-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/transx/impl/TransxPooledDataSourceFactory.java
* /pax-jdbc-pool-transx-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/transx/impl/Activator.java
* /pax-jdbc-pool-transx-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/transx/impl/TransxXaPooledDataSourceFactory.java

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Found in path(s):
* /pax-jdbc-pool-transx-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-pool-transx/pom.xml

1.446 apache-karaf-deployer-wrap 4.4.4

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1.447 metrics-jmx 4.2.20

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.20
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jmx-4-2-20-zip/metrics-core-4-2-20-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to report metrics
 via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,j
avax.management";version="4.2.20"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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1.448 pax-url-obr 2.6.14

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* /pax-url-obr-2-6-14-sources-jar/org/ops4j/pax/url/obr/internal/Activator.java
* /pax-url-obr-2-6-14-sources-jar/org/ops4j/pax/url/obr/internal/Connection.java
*
 /pax-url-obr-2-6-14-sources-jar/org/ops4j/pax/url/obr/internal/Configuration.java

1.449 apache-karaf-webconsole-instance 4.4.4

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1.450 keycloak-undertow-adapter-spi 18.0.2

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Undertow Integration SPI
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Undertow Integration SPI
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-undertow-adapter-spi
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
undertow-adapter-spi
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-under
tow-adapter-spi/
Bnd-LastModified: 1656070085957
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak Undertow Integration SPI
Bundle-SymbolicName: org.keycloak.keycloak-undertow-adapter-spi
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.undertow;uses:="javax.servlet.http
,io.undertow.servlet.api,io.undertow.server,io.undertow.util,io.underto
w.server.session,io.undertow.servlet.handlers,io.undertow.servlet.spec,
io.undertow.servlet.util,org.keycloak.adapters.spi,javax.servlet,io.und
ertow.server.handlers,io.undertow.server.handlers.form,org.keycloak.com
mon.util,javax.security.cert,org.jboss.logging";version="18.0.2"

Fragment-Host: org.keycloak.keycloak-undertow-adapter
Implementation-Vendor-Id: org.keycloak
Import-Package: io.undertow.server;version="[1.4,3)",io.undertow.server.
handlers;version="[1.4,3)",io.undertow.server.handlers.form;version="[1
.4,3)",io.undertow.server.session;version="[1.4,3)",io.undertow.servlet
.api;version="[1.4,3)",io.undertow.servlet.handlers;version="[1.4,3)",i
o.undertow.servlet.spec;version="[1.4,3)",io.undertow.servlet.util;vers
ion="[1.4,3)",io.undertow.util;version="[1.4,3)",javax.security.cert;re
solution:=optional,javax.servlet;version="[3.0,4)";resolution:=optional
,javax.servlet.http;version="[3.0,4)";resolution:=optional,org.jboss.lo
gging;version="[3.4,4)";resolution:=optional,org.keycloak.adapters.spi;
version="[18.0,19)";resolution:=optional,org.keycloak.common.util;versi
on="[18.0,19)";resolution:=optional
Tool: Bnd-1.50.0

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1.451 pax-jdbc-pool-aries 1.5.6

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* /pax-jdbc-pool-aries-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/aries/impl/AriesXaPooledDataSourceFactory.java
* /pax-jdbc-pool-aries-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/aries/impl/Activator.java
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* /pax-jdbc-pool-aries-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-pool-aries/pom.xml

1.452 pax-transx-connector 0.5.4

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* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/PoolMXBean.java
* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/PoolConfigMXBean.java
*
 /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/SubjectCRIKey.java
* /pax-transx-connector-0-5-4-sources-
jar/org/ops4j/pax/transx/connector/impl/NamedXAResourceWithConnection.java
* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/SubjectSource.java
* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/LocalXAResource.java

* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/RecoverableResourceFactoryImpl.java
* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/MBeanHandler.java
* /pax-transx-connector-0-5-4-sources-jar/org/ops4j/pax/transx/connector/impl/WrapperNamedXAResource.java

1.453 jersey-container-servlet 2.41

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* https://github.com/eclipse-ee4j/jersey

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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

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1.459 pax-web-tomcat-keycloak18 8.0.22

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Found in path(s):

* /pax-web-tomcat-keycloak18-8-0-22-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-tomcat-keycloak18/pom.xml
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#

org.keycloak.adapters.osgi.tomcat.KeycloakAuthenticatorService

Found in path(s):
* /pax-web-tomcat-keycloak18-8-0-22-sources-jar/META-INF/services/org.ops4j.pax.web.service.AuthenticatorService

1.460 apache-karaf-deployer-blueprint 4.4.4

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1.461 apache-karaf-bundle-core 4.4.4

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1.462 keycloak-jetty-core 18.0.2

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Found in path(s):
* /keycloak-jetty-core-18-0-2-jar/META-INF/maven/org.keycloak/keycloak-jetty-core/pom.xml
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Jetty Core Integration
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Jetty Core Integration
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-jetty-core
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
jetty-core
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-jetty
-core/
Bnd-LastModified: 1656070226277
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak Jetty Core Integration
Bundle-SymbolicName: org.keycloak.keycloak-jetty-core
Bundle-Vendor: JBoss by Red Hat

Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.jetty.core;uses:="org.eclipse.jett
y.security,org.eclipse.jetty.server,org.keycloak.adapters.jetty.spi,org
.keycloak.representations.adapters.config,javax.servlet.http,org.eclips
e.jetty.security.authentication,org.eclipse.jetty.server.handler,org.ke
ycloak.adapters.spi,org.keycloak.constants,org.keycloak,javax.servlet,o
rg.keycloak.enums,javax.security.auth,org.jboss.logging,org.keycloak.ad
apters";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: javax.security.auth;resolution:=optional,javax.servlet;v
ersion="[2.5,4)";resolution:=optional,javax.servlet.http;version="[2.5,
4)";resolution:=optional,org.eclipse.jetty.security;version="[8.1,10)";
resolution:=optional,org.eclipse.jetty.security.authentication;version=
"[8.1,10)";resolution:=optional,org.eclipse.jetty.server;version="[8.1,
10)";resolution:=optional,org.eclipse.jetty.server.handler;version="[8.
1,10)";resolution:=optional,org.jboss.logging;version="[3.4,4)";resolut
ion:=optional,org.keycloak;version="18.0.2",org.keycloak.adapters;versi
on="18.0.2",org.keycloak.adapters.jetty.spi;version="18.0.2",org.keyclo
ak.adapters.spi;version="18.0.2",org.keycloak.constants;version="18.0.2
",org.keycloak.enums;version="18.0.2",org.keycloak.representations.adap
ters.config;version="18.0.2"
Tool: Bnd-1.50.0

Found in path(s):
* /keycloak-jetty-core-18-0-2-jar/META-INF/MANIFEST.MF

1.463 jetty-alpn-java-client 9.4.52.v20230823

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* 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

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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

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

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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following Apache Tomcat jars, all ASL2
licensed.

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* 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
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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

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1.465 jetty-alpn-openjdk8-server 9.4.52.v20230823

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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

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
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1.466 apache-karaf-jaas-config 4.4.4

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1.467 apache-karaf-http-core 4.4.4

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1.470 pax-web-deployer 8.0.22

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1.471 apache-felix-webconsole 4.8.10

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1.474 keycloak-osgi-adapter 8.0.22

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* /keycloak-osgi-adapter-8-0-22-sources-jar/org/keycloak/adapters/osgi/HierarchicalPathBasedKeycloakConfigResolver.java
* /keycloak-osgi-adapter-8-0-22-sources-jar/org/keycloak/adapters/osgi/BundleBasedKeycloakConfigResolver.java

* /keycloak-osgi-adapter-8-0-22-sources-jar/org/keycloak/adapters/osgi/PathBasedKeycloakConfigResolver.java

1.475 httpclient-osgi 4.5.14

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1.477 apache-karaf-diagnostic-core 4.4.4

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

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* 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
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module is selected.

* java.sun.security.ssl

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

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

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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* 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

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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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* java.sun.security.ssl

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

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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

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1.488 apache-karaf-jaas-command 4.4.4

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1.489 pax-transx-tm-geronimo 0.5.4

1.489.1 Available under license :

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* /pax-transx-tm-geronimo-0-5-4-sources-jar/META-INF/maven/org.ops4j.pax.transx/pax-transx-tm-geronimo/pom.xml
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Found in path(s):
* /pax-transx-tm-geronimo-0-5-4-sources-jar/javax/resource/spi/XATerminator.java
* /pax-transx-tm-geronimo-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/geronimo/GeronimoPlatformTransactionManager.java
* /pax-transx-tm-geronimo-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/geronimo/Activator.java
* /pax-transx-tm-geronimo-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/geronimo/TransactionManagerService.java
*
 /pax-transx-tm-geronimo-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/geronimo/TransactionManagerWrapper.java

1.490 javax-websocket-server-impl 9.4.52.v20230823

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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

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following Apache Tomcat jars, all ASL2
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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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The following artifacts are CDDL + GPLv2 with classpath exception.

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.491 pax-jdbc-db2 1.5.6

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Found in path(s):
* /pax-jdbc-db2-1-5-6-sources-jar/org/ops4j/pax/jdbc/db2/impl/Activator.java
* /pax-jdbc-db2-1-5-6-sources-jar/org/ops4j/pax/jdbc/db2/impl/DB2DataSourceFactory.java

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Found in path(s):
* /pax-jdbc-db2-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-db2/pom.xml

1.492 pax-url-war 2.6.14

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* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/internal/Activator.java
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* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/webbundle/Handler.java
* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/warref/Handler.java
* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/Handler.java
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* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/internal/Configuration.java
* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/internal/WarConnection.java

* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/internal/ConfigurationImpl.java
* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/ServiceConstants.java
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* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/internal/AbstractConnection.java
* /pax-url-war-2-6-14-sources-jar/org/ops4j/pax/url/war/internal/WebBundleConnection.java

1.493 pax-logging-logback 2.2.3

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* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/Slf4jLogbackMDCAdapter.java
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* /pax-logging-logback-2-2-3-sources-jar/ch/qos/logback/classic/spi/PackagingDataCalculator.java
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* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/PaxLoggingServiceImpl.java
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/bridges/PaxAppenderDelegate.java
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/spi/PaxLevelImpl.java

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* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/Activator.java

* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/PaxLoggerImpl.java
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Found in path(s):
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLoggingEventForLogback.java
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLocationInfoForLogback.java

1.494 keycloak-osgi-adapter 18.0.2

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak OSGI Adapter
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak OSGI Adapter
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-osgi-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
osgi-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-osgi-
adapter/
Bnd-LastModified: 1656070214172
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-Description: Keycloak SSO
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak OSGI Adapter
Bundle-SymbolicName: org.keycloak.keycloak-osgi-adapter
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.osgi;uses:="org.osgi.framework,org
.keycloak.adapters.spi,org.keycloak.adapters,org.jboss.logging,org.osgi
.util.tracker,org.ops4j.pax.web.service,org.osgi.service.http,org.eclip
se.jetty.security,org.eclipse.jetty.util.security,javax.servlet,org.apa
che.cxf.transport.http,org.apache.cxf.transport.servlet,org.osgi.servic
e.cm";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: javax.servlet;version="[3.1,5)";resolution:=optional,org
.apache.cxf.transport.http;version="[3,4)";resolution:=optional,org.apa

che.cxf.transport.servlet;version="[3,4)";resolution:=optional,org.ecli
pse.jetty.security;version="[8.1,10)";resolution:=optional,org.eclipse.
jetty.util.security;version="[8.1,10)";resolution:=optional,org.jboss.l
ogging;version="[3.4,4)";resolution:=optional,org.keycloak.adapters;ver
 sion="18.0.2",org.keycloak.adapters.spi;version="18.0.2",org.ops4j.pax.
web.service;version="[3.0,8)",org.osgi.framework;version="[1.5,2)";reso
lution:=optional,org.osgi.service.cm;version="[1.3,2)";resolution:=opti
onal,org.osgi.service.http;version="[1.2,2)";resolution:=optional,org.o
sgi.util.tracker;version="[1.4,2)";resolution:=optional
Tool: Bnd-1.50.0

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/keycloak-osgi-adapter-18-0-2-jar/org/keycloak/adapters/osgi/PaxWebIntegrationService.class: binary file matches
/keycloak-osgi-adapter-18-0-2-
jar/org/keycloak/adapters/osgi/PaxWebIntegrationService$JettyConstraintHandler.class: binary file matches

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1.495 pax-jdbc-config 1.5.6

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* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/ExternalConfigLoader.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/FileConfigLoader.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/ConfigLoader.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/Activator.java
*
 /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/ServiceTrackerHelper.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/DataSourceConfigManager.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/Decryptor.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/DataSourceWrapper.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/DataSourceRegistration.java
* /pax-jdbc-config-1-5-6-sources-jar/org/ops4j/pax/jdbc/config/impl/PoolingWrapper.java
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1.496 apache-karaf-main 4.4.4

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1.497 apache-karaf-webconsole-features 4.4.4

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* /pax-web-karaf-8-0-22-sources-jar/org/ops4j/pax/web/karaf/commands/ServletListCommand.java
* /pax-web-karaf-8-0-22-sources-jar/org/ops4j/pax/web/karaf/commands/ContextListCommand.java
* /pax-web-karaf-8-0-22-sources-jar/org/ops4j/pax/web/karaf/commands/WebCommand.java
* /pax-web-karaf-8-0-22-sources-jar/org/ops4j/pax/web/karaf/commands/WabInfoCommand.java
*
 /pax-web-karaf-8-0-22-sources-jar/org/ops4j/pax/web/karaf/commands/MetaCommand.java
* /pax-web-karaf-8-0-22-sources-jar/org/ops4j/pax/web/karaf/commands/WabListCommand.java

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* /pax-web-karaf-8-0-22-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-karaf/pom.xml

1.500 metrics-jvm 4.2.20

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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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.20"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.20
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-4-2-20-jar/META-INF/MANIFEST.MF

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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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

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

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
licensed.

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* /pax-jdbc-hsqldb-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-hsqldb/pom.xml

1.508 apache-karaf-deployer-kar 4.4.4

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* /pax-jdbc-pool-common-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/common/PooledDataSourceFactory.java
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1.510 apache-karaf-jaas-boot 4.4.4

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1.513 apache-karaf-shell-commands 4.4.4

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1.515 amqp-client 5.18.0

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* /bin/grep
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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M
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Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.18.0
Bnd-LastModified: 1687163658344
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
ional,com.fasterxml.jackson.core;version="[2.15,3)";resolution:=optio
nal,com.fasterxml.jackson.databind;version="[2.15,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.15,3)";resoluti
 on:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitm
q.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tool
s.json,com.rabbitmq.utility,io.micrometer.core.instrument;version="[1
.11,2)";resolution:=optional,io.opentelemetry.api;resolution:=optiona
l,io.opentelemetry.api.common;resolution:=optional,io.opentelemetry.a
pi.metrics;resolution:=optional,javax.naming,javax.naming.directory,j
avax.net,javax.net.ssl,javax.security.auth.callback,javax.security.au
th.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
m.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabb
itmq.utility,javax.net,javax.net.ssl";version="5.18.0",com.rabbitmq.c
lient.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbit
 mq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instr
ument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,java
x.net.ssl";version="5.18.0",com.rabbitmq.client.impl.nio;uses:="com.r
abbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.18.
0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.r
abbitmq.client.impl";version="5.18.0",com.rabbitmq.tools;version="5.1
8.0",com.rabbitmq.tools.json;version="5.18.0",com.rabbitmq.tools.json

rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,
com.rabbitmq.client";version="5.18.0",com.rabbitmq.utility;version="5
.18.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.18.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

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* /amqp-client-5-18-0-jar/META-INF/MANIFEST.MF

1.516 pax-jdbc-pool-dbcp2 1.5.6

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*/

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* /pax-jdbc-pool-dbcp2-1-5-6-sources-
jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/DbcpXAPooledDataSourceFactory.java
* /pax-jdbc-pool-dbcp2-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/Activator.java
* /pax-jdbc-pool-dbcp2-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/DbcpPooledDataSourceFactory.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /pax-jdbc-pool-dbcp2-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-pool-dbcp2/pom.xml

1.517 apache-karaf-shell-console 4.4.4

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 * javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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

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* 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
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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,
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1.523 metrics-health-checks 4.2.20

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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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.2.20",com.codahale.metrics.health.annotation;version="4
.2.20",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.he
alth,com.codahale.metrics.jvm";version="4.2.20"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.2.20
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-4-2-20-jar/META-INF/MANIFEST.MF

1.524 osgi-service-jdbc 1.1.0

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**/

Found in path(s):
* /org-osgi-service-jdbc-1-1-0-sources-jar/org/osgi/service/jdbc/DataSourceFactory.java
* /org-osgi-service-jdbc-1-1-0-sources-jar/org/osgi/service/jdbc/package-info.java

1.525 jetty-alpn-client 9.4.52.v20230823

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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
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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

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.526 org.apache.karaf.shell.groovy 4.4.4

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1.527 pax-transx-tm-atomikos 0.5.4

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* /pax-transx-tm-atomikos-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/atomikos/OsgiAssembler.java
* /pax-transx-tm-atomikos-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/atomikos/TransactionManagerService.java
* /pax-transx-tm-atomikos-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/atomikos/TransactionManagerWrapper.java
*
 /pax-transx-tm-atomikos-0-5-4-sources-jar/com/atomikos/logging/LoggerFactory.java
* /pax-transx-tm-atomikos-0-5-4-sources-jar/org/ops4j/pax/transx/tm/impl/atomikos/Activator.java

1.528 pax-jdbc-pool-c3p0 1.5.6

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* /pax-jdbc-pool-c3p0-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/c3p0/impl/ds/C3p0PooledDataSourceFactory.java
* /pax-jdbc-pool-c3p0-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/c3p0/impl/ds/C3p0XAPooledDataSourceFactory.java
* /pax-jdbc-pool-c3p0-1-5-6-sources-jar/org/ops4j/pax/jdbc/pool/c3p0/impl/Activator.java

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```

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* /pax-jdbc-pool-c3p0-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-pool-c3p0/pom.xml

1.529 keycloak-undertow-adapter 18.0.2

1.529.1 Available under license :

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Undertow Integration
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Undertow Integration
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-undertow-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
undertow-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-under
tow-adapter/
Bnd-LastModified: 1656070202676
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
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Bundle-ManifestVersion:
2
Bundle-Name: Keycloak Undertow Integration
Bundle-SymbolicName: org.keycloak.keycloak-undertow-adapter
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.undertow;uses:="org.keycloak,io.un
dertow.security.api,io.undertow.server,io.undertow.util,org.keycloak.ad
apters.spi,org.keycloak.adapters,org.keycloak.enums,io.undertow.server.
session,io.undertow.security.idm,javax.servlet,io.undertow.servlet.api,
io.undertow.server.handlers.form,io.undertow.servlet.util,io.undertow.s
ervlet,org.keycloak.constants,org.jboss.logging,io.undertow.servlet.han
dlers,javax.servlet.http";version="18.0.2"

Implementation-Vendor-Id: org.keycloak
Import-Package: io.undertow.security.api;version="[1.4,3)",io.undertow.s
ecurity.idm;version="[1.4,3)",io.undertow.server;version="[1.4,3)",io.u
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;resolution:=optional,org.keycloak.adapters;version="[18.0,19)";resolut
ion:=optional,org.keycloak.adapters.spi;version="[18.0,19)";resolution:
=optional,org.keycloak.constants;version="[18.0,19)";resolution:=option
al,org.keycloak.enums;version="[18.0,19)";resolution:=optional
Tool: Bnd-1.50.0

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* /keycloak-undertow-adapter-18-0-2-jar/META-INF/MANIFEST.MF
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org.keycloak.adapters.undertow.KeycloakServletExtension

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/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/KeycloakServletExtension.class: binary file matches
/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/ServletKeycloakAuthMech.class: binary file matches
/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/UndertowAuthenticationMechanism.class: binary file matches

Found in path(s):
* /bin/grep

1.530 httpcore-osgi 4.4.16

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1.531 pax-web-tomcat-keycloak 8.0.22

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* /pax-web-tomcat-keycloak-8-0-22-sources-jar/org/ops4j/pax/web/keycloak/tomcat/KeycloakAuthenticatorService.java
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#

org.ops4j.pax.web.keycloak.tomcat.KeycloakAuthenticatorService

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* /pax-web-tomcat-keycloak-8-0-22-sources-jar/META-INF/services/org.ops4j.pax.web.service.AuthenticatorService
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* /pax-web-tomcat-keycloak-8-0-22-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-tomcat-keycloak/pom.xml

1.532 apache-karaf-obr-core 4.4.4

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-impl

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

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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1.538 jetty-alpn-java-server 9.4.52.v20230823

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Eclipse

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* 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
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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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1.539 pax-jdbc-jtds 1.5.6

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*/
```

Found in path(s):
* /pax-jdbc-jtds-1-5-6-sources-jar/org/ops4j/pax/jdbc/jtds/impl/JTDSDataSourceFactory.java
* /pax-jdbc-jtds-1-5-6-sources-jar/org/ops4j/pax/jdbc/jtds/impl/Activator.java

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-->
```

Found in path(s):
* /pax-jdbc-jtds-1-5-6-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-jtds/pom.xml

1.540 pax-web-runtime 8.0.22

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1.542 pax-web-compatibility-el2 8.0.22

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Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Jetty 9.4.x Integration
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Jetty 9.4.x Integration
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-jetty94-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64

Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-jetty94-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-jetty94-adapter/
Bnd-LastModified: 1656070231362
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak Jetty 9.4.x Integration
Bundle-SymbolicName: org.keycloak.keycloak-jetty94-adapter
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.jetty;uses:="javax.servlet.http,org.eclipse.jetty.server,org.keycloak.adapters.spi,org.keycloak.adapters.jetty.core,org.keycloak.adapters,org.eclipse.jetty.server.session,org.keycloak.adapters.jetty.spi,org.eclipse.jetty.util,org.eclipse.jetty.security.authentication,org.keycloak.common.util,javax.servlet";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: javax.servlet;version="[3.0,4)";resolution:=optional,javax.servlet.http;version="[3.0,4)";resolution:=optional,org.eclipse.jetty.security.authentication;version="[9.4,10)";resolution:=optional,org.eclipse.jetty.server;version="[9.4,10)";resolution:=optional,org.eclipse.jetty.server.session;version="[9.4,10)";resolution:=optional,org.eclipse.jetty.util;version="[9.4,10)";resolution:=optional,org.keycloak.adapters;version="18.0.2",org.keycloak.adapters.jetty.core;version="18.0.2",org.keycloak.adapters.jetty.spi;version="18.0.2",org.keycloak.adapters.spi;version="18.0.2",org.keycloak.common.util;version="18.0.2"
Tool: Bnd-1.50.0

Found in path(s):
* /keycloak-jetty94-adapter-18-0-2-jar/META-INF/MANIFEST.MF

1.546 apache-felix-framework-security 2.8.4

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1.547 pax-web-tomcat-common 8.0.22

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* /pax-web-tomcat-common-8-0-22-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-tomcat-common/pom.xml

1.548 pax-url-classpath 2.6.14

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* /pax-url-classpath-2-6-14-sources-jar/org/ops4j/pax/url/classpath/internal/Parser.java
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* /pax-url-classpath-2-6-14-sources-jar/org/ops4j/pax/url/classpath/Handler.java

1.549 apache-karaf-log-core 4.4.4

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1.553 apache-karaf-management-server 4.4.4

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1.554 metrics 4.2.20

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.20
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-4-2-20-zip/metrics-core-4-2-20-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Jetty Adapter SPI
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Jetty Adapter SPI
Implementation-Version: 18.0.2

Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-jetty-adapter-spi
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-jetty-adapter-spi
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-jetty-adapter-spi/
Bnd-LastModified: 1656070098713
Build-Jdk: 11.0.13
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2
Bundle-Name: Keycloak Jetty Adapter SPI
Bundle-SymbolicName: org.keycloak.keycloak-jetty-adapter-spi
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Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.jetty.spi;uses:="javax.servlet,javax.servlet.http,org.eclipse.jetty.server,org.keycloak.adapters.spi,org.keycloak.common.util,javax.security.cert,org.jboss.logging,org.eclipse.jetty.server.session,org.eclipse.jetty.server.handler";version="18.0.2"
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1.559 jersey-container-servlet-core 2.41

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

Oracle OpenJDK

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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1.567 apache-karaf-deployer-features 4.4.4

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* /pax-transx-tm-api-0-5-4-sources-jar/org/ops4j/pax/transx/tm/NamedResource.java
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1.569 pax-jdbc-pool-hikaricp 1.5.6

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1.570 pax-transx-jms 0.5.4

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1.571 mssql-jdbc 12.3.1.jre8-preview

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1.572 pax-jdbc-mariadb 1.5.6

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1.573 apache-karaf-scr-management 4.4.4

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* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/avalon/AvalonLogFactory.java
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* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/pattern/ExtrasFormattingInfo.java
*
 /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/xml/DOMConfigurator.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/NDC.java

* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/BasicConfigurator.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/Priority.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/LogManager.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/PropertyConfigurator.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/PaxContext.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/xml/XSLTLayout.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/MDC.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/pattern/ExtrasPatternParser.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/helpers/Loader.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/juli/logging/LogFactory.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/helpers/LogLog.java
*
 /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/Logger.java
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SLF4J 2 switches from org.slf4j.impl.StaticLoggerBinder to Service Loader API
org.ops4j.pax.logging.slf4j.PaxLoggingSLF4JServiceProvider

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*
 /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/log4jv2/Log4jv2ThreadContextStack.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/log4jv2/Log4jv2ThreadContextMap.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/logging/log4j/ThreadContext.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/log4jv2/Log4jv2Logger.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/logging/log4j/status/StatusLogger.java
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 /pax-logging-api-2-2-3-sources-jar/org/apache/log4j/AuditLevel.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/ConfigurationNotifier.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/PaxMarker.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/BackendSupport.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/juli/logging/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/FormattingTriple.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/PaxDefaultLogStreamProvider.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/FileServiceLog.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/jbosslogging/JBossLoggingLogger.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/slf4j/package-info.java
*
 /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/PaxLoggingManagerAwareLogger.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/juli/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/commons/logging/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/PaxLoggingConstants.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/jbosslogging/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/jcl/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/jboss/logging/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/apache/logging/log4j/util/PaxPropertySource.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/avalon/package-info.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/RegisteredService.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/LogReaderServiceImpl.java
* /pax-logging-api-2-2-3-sources-jar/org/ops4j/pax/logging/spi/support/EventAdminConfigurationNotifier.java
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org.apache.logging.log4j.util.PaxPropertySource

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1.575 apache-karaf-profile-core 4.4.4

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jar/org/ops4j/pax/web/extender/war/internal/model/AttributeCollectingServletContext.java
* /pax-web-extender-war-8-0-22-sources-
jar/org/ops4j/pax/web/extender/war/internal/model/BundleWebApplicationClassSpace.java
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  ${project.name}

  ${project.description}

  Maven URL:
    \u001B[33mmvn:${project.groupId}/${project.artifactId}/${project.version}\u001B[0m

\u001B[1mDESCRIPTION\u001B[0m
  The war extender wraps standard war files or web application bundles to the HTTP Service.
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1.579 metrics-graphite 4.2.20

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/metrics-graphite-4-2-20-zip/amqp-client-5-18-0-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches
/metrics-graphite-4-2-20-zip/amqp-client-5-18-0-jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

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* /bin/grep
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
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: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.20
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-graphite-4-2-20-zip/metrics-core-4-2-20-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 17
Bundle-Description: A reporter for Metrics which announces measurement
s to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html

Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.2.20
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metr
ics,com.rabbitmq.client,javax.net";version="4.2.20"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.2.20
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.rabbitmq.client;version="[5.18,6)",javax.net
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M
PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.18.0
Bnd-LastModified: 1687163658344
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
ional,com.fasterxml.jackson.core;version="[2.15,3)";resolution:=optio
nal,com.fasterxml.jackson.databind;version="[2.15,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.15,3)";resoluti
 on:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitm
q.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tool
s.json,com.rabbitmq.utility,io.micrometer.core.instrument;version="[1
.11,2)";resolution:=optional,io.opentelemetry.api;resolution:=optiona
l,io.opentelemetry.api.common;resolution:=optional,io.opentelemetry.a
pi.metrics;resolution:=optional,javax.naming,javax.naming.directory,j
avax.net,javax.net.ssl,javax.security.auth.callback,javax.security.au
th.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
m.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabb
itmq.utility,javax.net,javax.net.ssl";version="5.18.0",com.rabbitmq.c
lient.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbit
 mq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instr
ument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,java
x.net.ssl";version="5.18.0",com.rabbitmq.client.impl.nio;uses:="com.r
abbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.18.
0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.r
abbitmq.client.impl";version="5.18.0",com.rabbitmq.tools;version="5.1
8.0",com.rabbitmq.tools.json;version="5.18.0",com.rabbitmq.tools.json
rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,
com.rabbitmq.client";version="5.18.0",com.rabbitmq.utility;version="5
.18.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.18.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /metrics-graphite-4-2-20-zip/amqp-client-5-18-0-jar/META-INF/MANIFEST.MF

1.580 libmd 1.1.0-r0

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man/sha1.3
man/sha2.3
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src/helper.c
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1.581 bash 5.2.21-r0

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1.582 libbsd 0.11.7-r3

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include/bsd/unistd.h
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 src/err.c
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include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/pwcache.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
src/radixsort.c
src/setmode.c
src/strmode.c
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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
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1.584 pcre 10.42-r2

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1.585 sqlite 3.44.2-r0

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-- $Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp $
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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

1.587 py3-pip-pyc 23.3.1-r0

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v

$ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes

3.2	3.1	2010	PSF	yes

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/* LINTLIBRARY */

/* ./panel.c */

#include <panel.priv.h>

#undef _nc_retrace_panel
PANEL *_nc_retrace_panel(
  PANEL *pan)
  { return(*(PANEL **)0); }

#undef _nc_my_visbuf
const char *_nc_my_visbuf(
  const void *ptr,
  int n)
  { return(*(const char **)0); }

#undef _nc_dPanel
void _nc_dPanel(
  const char *text,
  const PANEL *pan)
  { /* void */ }

#undef _nc_dStack
void _nc_dStack(
  const char *fmt,
  int num,
  const PANEL *pan)
  { /* void */ }

#undef _nc_Wnoutrefresh
void _nc_Wnoutrefresh(
  const
```

```
 PANEL *pan)
  { /* void */ }

#undef _nc_Touchpan
void _nc_Touchpan(
  const PANEL *pan)
  { /* void */ }

#undef _nc_Touchline
void _nc_Touchline(
  const PANEL *pan,
  int start,
  int count)
  { /* void */ }

/* ./p_above.c */

#undef ground_panel
PANEL *ground_panel(
  SCREEN *sp)
  { return(*(PANEL **)0); }

#undef panel_above
PANEL *panel_above(
  const PANEL *pan)
  { return(*(PANEL **)0); }

/* ./p_below.c */

#undef ceiling_panel
PANEL *ceiling_panel(
  SCREEN *sp)
  { return(*(PANEL **)0); }

#undef panel_below
PANEL *panel_below(
  const PANEL *pan)
  { return(*(PANEL **)0); }

/* ./p_bottom.c */

#undef bottom_panel
int bottom_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_delete.c */
```

```
#undef del_panel
int del_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_hide.c */

#undef hide_panel
int hide_panel(
   PANEL *pan)
  { return(*(int *)0); }

/* ./p_hidden.c */

#undef panel_hidden
int panel_hidden(
  const PANEL *pan)
  { return(*(int *)0); }

/* ./p_move.c
 */

#undef move_panel
int move_panel(
  PANEL *pan,
  int starty,
  int startx)
  { return(*(int *)0); }

/* ./p_new.c */

#undef new_panel
PANEL *new_panel(
  WINDOW *win)
  { return(*(PANEL **)0); }

/* ./p_replace.c */

#undef replace_panel
int replace_panel(
  PANEL *pan,
  WINDOW *win)
  { return(*(int *)0); }

/* ./p_show.c */

#undef show_panel
int show_panel(
```

```
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_top.c */

#undef top_panel
int top_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_update.c */

#undef update_panels_sp
void update_panels_sp(
  SCREEN *sp)
  { /* void */ }

#undef update_panels
void update_panels(void)
  { /* void */ }

/* ./p_user.c */

#undef set_panel_userptr
int set_panel_userptr(
  PANEL *pan,
  const void *uptr)
  { return(*(int *)0); }

#undef panel_userptr
const void *panel_userptr(
  const PANEL *pan)
  { return(*(const void **)0); }

/* ./p_win.c */

#undef panel_window
WINDOW *panel_window(
  const PANEL *pan)
  { return(*(WINDOW **)0);
  }
```

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#include <panel.priv.h>

#undef _nc_retrace_panel
PANEL *_nc_retrace_panel(
  PANEL *pan)
  { return(*(PANEL **)0); }

#undef _nc_my_visbuf
const char *_nc_my_visbuf(
  const void *ptr,
  int n)
  { return(*(const char **)0); }
```

```
#undef _nc_dPanel
void _nc_dPanel(
  const char *text,
  const PANEL *pan)
  { /* void */ }

#undef _nc_dStack
void _nc_dStack(
  const char *fmt,
  int num,
  const PANEL *pan)
  { /* void */ }

#undef _nc_Wnoutrefresh
void _nc_Wnoutrefresh(
  const
 PANEL *pan)
  { /* void */ }

#undef _nc_Touchpan
void _nc_Touchpan(
  const PANEL *pan)
  { /* void */ }

#undef _nc_Touchline
void _nc_Touchline(
  const PANEL *pan,
  int start,
  int count)
  { /* void */ }

/* ./p_above.c */

#undef ground_panel
PANEL *ground_panel(
  SCREEN *sp)
  { return(*(PANEL **)0); }

#undef panel_above
PANEL *panel_above(
  const PANEL *pan)
  { return(*(PANEL **)0); }

/* ./p_below.c */

#undef ceiling_panel
PANEL *ceiling_panel(
```

```
  SCREEN *sp)
  { return(*(PANEL **)0); }

#undef panel_below
PANEL *panel_below(
  const PANEL *pan)
  { return(*(PANEL **)0); }

/* ./p_bottom.c */

#undef bottom_panel
int bottom_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_delete.c */

#undef del_panel
int del_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_hide.c */

#undef hide_panel
int hide_panel(
    PANEL *pan)
  { return(*(int *)0); }

/* ./p_hidden.c */

#undef panel_hidden
int panel_hidden(
  const PANEL *pan)
  { return(*(int *)0); }

/* ./p_move.c
 */

#undef move_panel
int move_panel(
  PANEL *pan,
  int starty,
  int startx)
  { return(*(int *)0); }

/* ./p_new.c */
```

```
#undef new_panel
PANEL *new_panel(
  WINDOW *win)
  { return(*(PANEL **)0); }

/* ./p_replace.c */

#undef replace_panel
int replace_panel(
  PANEL *pan,
  WINDOW *win)
  { return(*(int *)0); }

/* ./p_show.c */

#undef show_panel
int show_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_top.c */

#undef top_panel
int top_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_update.c */

#undef update_panels_sp
void update_panels_sp(
  SCREEN *sp)
  { /* void */ }

#undef update_panels
void update_panels(void)
  { /* void */ }

/* ./p_user.c */

#undef set_panel_userptr
int set_panel_userptr(
  PANEL *pan,
  const void *uptr)
  { return(*(int *)0); }

#undef panel_userptr
const void *panel_userptr(
```

```
  const PANEL *pan)
  { return(*(const void **)0); }

/* ./p_win.c */

#undef panel_window
WINDOW *panel_window(
  const PANEL *pan)
  { return(*(WINDOW **)0);
  }
```

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# $Id: modules,v 1.11 2020/02/02 23:34:34 tom Exp $
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##############################################################################
#
# Author: Thomas E. Dickey 1995-on
#

@ base
# Library objects
panel  lib  $(srcdir) $(HEADER_DEPS)
p_above  lib  $(srcdir) $(HEADER_DEPS)
p_below  lib  $(srcdir) $(HEADER_DEPS)
p_bottom lib  $(srcdir) $(HEADER_DEPS)
p_delete lib  $(srcdir) $(HEADER_DEPS)
p_hide  lib  $(srcdir) $(HEADER_DEPS)
p_hidden lib  $(srcdir) $(HEADER_DEPS)
p_move  lib  $(srcdir) $(HEADER_DEPS)
p_new  lib  $(srcdir) $(HEADER_DEPS)
```

```
p_replace lib  $(srcdir) $(HEADER_DEPS)
p_show  lib  $(srcdir) $(HEADER_DEPS)
p_top  lib  $(srcdir) $(HEADER_DEPS)
p_update lib  $(srcdir) $(HEADER_DEPS)
p_user  lib  $(srcdir) $(HEADER_DEPS)
p_win  lib  $(srcdir) $(HEADER_DEPS)

# vile:makemode
```

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path(s):
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* /libpanel-6-4-zip/libpanel_6.4/p_hide.c
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#
# Author: Thomas E. Dickey <dickey@clark.net> 1996
#
$(srcdir)/panel.h
# vile:makemode
```

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/****************************************************************************
*  Author: Thomas E. Dickey       2002-on                                   *
****************************************************************************/
/* LINTLIBRARY */

/* ./panel.c */

#include <panel.priv.h>

#undef _nc_retrace_panel
PANEL *_nc_retrace_panel(
  PANEL *pan)
  { return(*(PANEL **)0); }

#undef _nc_my_visbuf
const char *_nc_my_visbuf(
  const void *ptr,
  int n)
  { return(*(const char **)0); }
```

```
#undef _nc_dPanel
void _nc_dPanel(
  const char *text,
  const PANEL *pan)
  { /* void */ }

#undef _nc_dStack
void _nc_dStack(
  const char *fmt,
  int num,
  const PANEL *pan)
  { /* void */ }

#undef _nc_Wnoutrefresh
void _nc_Wnoutrefresh(
  const
 PANEL *pan)
  { /* void */ }

#undef _nc_Touchpan
void _nc_Touchpan(
  const PANEL *pan)
  { /* void */ }

#undef _nc_Touchline
void _nc_Touchline(
  const PANEL *pan,
  int start,
  int count)
  { /* void */ }

/* ./p_above.c */

#undef ground_panel
PANEL *ground_panel(
  SCREEN *sp)
  { return(*(PANEL **)0); }

#undef panel_above
PANEL *panel_above(
  const PANEL *pan)
  { return(*(PANEL **)0); }

/* ./p_below.c */

#undef ceiling_panel
PANEL *ceiling_panel(
  SCREEN *sp)
```

```
  { return(*(PANEL **)0); }

#undef panel_below
PANEL *panel_below(
  const PANEL *pan)
  { return(*(PANEL **)0); }

/* ./p_bottom.c */

#undef bottom_panel
int bottom_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_delete.c */

#undef del_panel
int del_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_hide.c */

#undef hide_panel
int hide_panel(
   PANEL *pan)
  { return(*(int *)0); }

/* ./p_hidden.c */

#undef panel_hidden
int panel_hidden(
  const PANEL *pan)
  { return(*(int *)0); }

/* ./p_move.c
 */

#undef move_panel
int move_panel(
  PANEL *pan,
  int starty,
  int startx)
  { return(*(int *)0); }

/* ./p_new.c */

#undef new_panel
```

```
PANEL *new_panel(
  WINDOW *win)
  { return(*(PANEL **)0); }

/* ./p_replace.c */

#undef replace_panel
int replace_panel(
  PANEL *pan,
  WINDOW *win)
  { return(*(int *)0); }

/* ./p_show.c */

#undef show_panel
int show_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_top.c */

#undef top_panel
int top_panel(
  PANEL *pan)
  { return(*(int *)0); }

/* ./p_update.c */

#undef update_panels_sp
void update_panels_sp(
  SCREEN *sp)
  { /* void */ }

#undef update_panels
void update_panels(void)
  { /* void */ }

/* ./p_user.c */

#undef set_panel_userptr
int set_panel_userptr(
  PANEL *pan,
  const void *uptr)
  { return(*(int *)0); }

#undef panel_userptr
const void *panel_userptr(
  const PANEL *pan)
```

```
  { return(*(const void **)0); }

/* ./p_win.c */

#undef panel_window
WINDOW *panel_window(
  const PANEL *pan)
  { return(*(WINDOW **)0);
 }
```

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* /libpanel-6-4-zip/libpanel_6.4/p_win.c

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1.589 distlib 0.3.8

1.589.1 Available under license :

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member

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the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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distlib has started off using some of the code from distutil2.

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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1.591 sshd-osgi 2.10.0

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Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/gss/UserAuthGSS.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyEncryptionContext.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/channel/ChannelSessionFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/signature/SignatureSkECDSA.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/ConnectionService.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/keys/DSSBufferPublicKeyParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/local/ChannelAgentForwarding.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/nio2/Nio2Service.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/closeable/Builder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/keys/ClientIdentityLoaderHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/pubkey/SessionKeyPairIterator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/future/DefaultOpenFuture.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHRSAPrivateKeyDecoder.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/channel/ClientChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/throttle/ChannelStreamWriter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/forward/LocalForwardingEntry.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/AbstractSessionIoHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/ModifiableFileWatcher.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/AbstractSession.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/kex/DHGServer.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/package-info.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/config/keys/DefaultAuthorizedKeysAuthenticator.java
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 /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/pem/RSAPEMResourceKeyPairParser.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/ReadPendingException.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/future/DefaultAuthFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/config/AllowTcpForwardingValue.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/AcceptAllPasswordAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/input/NullInputStream.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/writer/KeyPairResourceWriter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/SshClientConfigFileReader.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/KnownHostHashValue.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/resource/ResourceStreamProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/AbstractServerSession.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/der/ASN1Class.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/BufferedIoOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/subsystem/AbstractSubsystemClient.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/keys/ClientIdentity.java
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/sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/output/LoggingFilterOutputStream.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/exception/SshChannelNotFoundException.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/cipher/ECCurves.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/BuiltinIdentities.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/logging/SimplifiedLog.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/ShellFactorySelector.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/cipher/BaseRC4Cipher.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/RemoteWindow.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/threads/CloseableExecutorService.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/nio2/Nio2Connector.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/signature/AbstractSecurityKeySignature.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/channel/ChannelSessionAware.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/future/SshFutureListener.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/CancelTcpipForwardHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/AbstractDH.java
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/IoServiceFactoryFactory.java
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* /sshd-osgi-2-10-0-sources-
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* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/SignalListener.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/security/SecurityProviderChoice.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/PasswordHolder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/ProcessShellFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/FilePasswordProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/RawKdfOptions.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/future/ConnectFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/AttributeStore.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/CompressionNone.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/keyboard/PromptEntry.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/cipher/package-info.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/CommonModuleProperties.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/Service.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/ServerSession.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/IoWriteFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/Signal.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/PendingWriteFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/AbstractResourceKeyPairProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelAsyncOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/LocalWindow.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/threads/NoCloseExecutor.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/closeable/ParallelCloseable.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/OptionalFeature.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/nio2/Nio2Session.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/pubkey/RejectAllPublickeyAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/UserAuthInstance.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/AuthorizedKeyEntry.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/KeyIdentityProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/channel/PipeDataReceiver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/keyverifier/RejectAllServerKeyVerifier.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/pem/PKCS8PrivateKeyInfo.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/der/ASN1Type.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/AggregateShellFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/ObjectBuilder.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/channel/AbstractClientChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/session/AbstractClientSession.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/output/SecureByteArrayOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/output/NoCloseWriter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/MutablePassword.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/NoMoreSessionsHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/DefaultIoConnectFuture.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/local/ProxyAgentFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/KeySizeIndicator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/PasswordAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/pubkey/KeySetPublickeyAuthenticator.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/signature/SignatureFactoriesManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/extension/parser/ServerSignatureAlgorithms.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/keys/ECBufferPublicKeyParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/NamedResourceListParseResult.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/pubkey/CachingPublicKeyAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/BuiltinFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/random/SingletonRandomFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/HostPatternsHolder.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/command/CommandDirectErrorStreamAware.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/compression/CompressionFactory.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/Factory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/TcpipForwardHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/forward/DefaultForwarder.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/config/keys/AuthorizedKeysAuthenticator.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/input/InputStreamWithChannel.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/global/OpenSshHostKeysHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/hostbased/HostKeyIdentityProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/unix/AgentServer.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/AbstractKexFactoryManager.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/extension/parser/Elevation.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/BuiltinUserAuthFactories.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/channel/exit/AbstractChannelExitRequestHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/ReflectionUtils.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/kex/AbstractDHServerKeyExchange.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/keyboard/UserInteraction.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/shell/TtyFilterOutputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelAsyncInputStream.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/HostKeyCertificateProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/file/nonefs/NoneFileSystem.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/pem/ECDSAPEMResourceKeyPairParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/command/AbstractCommandSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/ECDH.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/keyboard/UserAuthKeyboardInteractive.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/net/NetworkConnector.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyPairResourceWriter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/keyprovider/ClassLoadableResourceKeyPairProvider.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/PublicKeyEntryDataResolver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/SyslogFacilityValue.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/x11/X11ForwardSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/HostConfigEntry.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/session/SessionFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/input/NoCloseReader.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/local/AgentServerProxy.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/extension/DefaultServerKexExtensionHandler.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/OsUtils.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/PrivateKeyEntryResolver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/hostbased/HostBasedAuthenticationReporter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/security/Decryptor.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/io/DirectoryScanner.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/future/DefaultCloseFuture.java

* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelIdentifier.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/exception/SshChannelException.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/file/util/BaseFileSystem.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/kex/DHFactory.java
*
 /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/command/Command.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/closeable/AbstractCloseable.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/common/AbstractAgentProxy.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/auth/password/PasswordAuthenticationReporter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/mac/MacFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/u2f/SkEcdsaPublicKey.java
* /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHKeyPairResourceParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/AbstractSessionFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/forward/StaticDecisionForwardingFilter.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/FactoriesListParseResult.java
*
 /sshd-osgi-2-10-0-sources-
jar/org/apache/sshd/common/config/keys/loader/pem/AbstractPEMResourceKeyPairParser.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/io/WritePendingException.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/util/buffer/BufferUtils.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/config/keys/ServerIdentity.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/agent/common/AgentForwardSupport.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/hosts/ConfigFileHostEntryResolver.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/forward/DirectTcpipFactory.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/client/config/keys/ClientIdentityFileWatcher.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/UserAuthPassword.java
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/channel/ChannelHolder.java
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```
/**
* Special exception returned by {@link AbstractSession#getSession(org.apache.sshd.common.io.IoSession,
boolean)} to
* indicate
 that there is no currently attached SSH session
*
* @author <a href="mailto:dev@mina.apache.org">Apache MINA SSHD Project</a>
*/
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/MissingAttachedSessionException.java
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*/
// Throw a special exception - SSHD-777
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/AbstractConnectionService.java
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*/
/**
* Provides a way to listen and handle the {@code SSH_MSG_IGNORE} and {@code SSH_MSG_DEBUG} messages that are received
* by
a session, as well as proprietary and/or extension messages and behavior.
*
* @author Apache MINA SSHD Project
*/
/**
    * Invoked if the user configured usage of a proprietary heartbeat mechanism. <B>Note:</B> by default throws
    * {@code UnsupportedOperationException} so users who configure a proprietary heartbeat mechanism option must
    * provide an implementation for this method.
    *
    * @param service   The {@link ConnectionService} through which the heartbeat is being executed.
    * @return   {@code true} whether heartbeat actually sent - <B>Note:</B> used mainly for debugging purposes.
    * @throws Exception If failed to send the heartbeat - <B>Note:</B> causes associated session termination.
    */

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/ReservedSessionMessagesHandler.java
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```
*/
/**
* Special exception thrown by
* {@link AbstractSession#attachSession(org.apache.sshd.common.io.IoSession, AbstractSession)}
 in order to indicate an
* already attached I/O session
*
* @author <a href="mailto:dev@mina.apache.org">Apache MINA SSHD Project</a>
*/
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/session/helpers/MultipleAttachedSessionException.java
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*/
/**
   * According to <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC 4252 - section 8</A>:
   *
   * <PRE>

   *      Both the server and the client should check whether the underlying
   *      transport layer provides confidentiality (i.e., if encryption is
   *      being used).  If no confidentiality is provided ("none" cipher),
   *      password authentication SHOULD be disabled.  If there is no
   *      confidentiality or no MAC, password change SHOULD be disabled.
   * </PRE>
   *
   * @param  session The {@link SessionContext} being used for authentication
   * @return         {@code true} if the context is not {@code null} and the ciphers have been established to anything
   *                 other than &amp;quot;none&amp;quot;.
   * @see            CommonModuleProperties#ALLOW_INSECURE_AUTH
```

```
   * @see           SessionContext#isSecureSessionTransport(SessionContext)
   */
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/auth/UserAuthMethodFactory.java
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*/
/**
* Poly1305 one-time message authentication code. This implementation is derived from the public domain C library
* <a href="https://github.com/floodyberry/poly1305-donna">poly1305-donna</a>.
 *
* @see <a href="http://cr.yp.to/mac/poly1305-20050329.pdf">The Poly1305-AES message-authentication
code</a>
*/
```

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/mac/Poly1305Mac.java
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Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/META-INF/maven/org.apache.sshd/sshd-osgi/pom.xml
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*/
/**
* A special exception that can be thrown by the {@link PasswordAuthenticator} to indicate that the password
requires
* changing
or is not string enough
*
* @see   <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC-4252 section 8 -
*   SSH_MSG_USERAUTH_PASSWD_CHANGEREQ</A>
* @author Apache MINA SSHD Project
*/

Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/server/auth/password/PasswordChangeRequiredException.java
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Found in path(s):
* /sshd-osgi-2-10-0-sources-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCrypt.java

1.592 tomcat 8.0.22

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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd

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- javaee_web_services_1_3.xsd
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* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/configuration/model/Interface.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/configuration/model/UndertowSubsystem.java
*
/pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/UndertowUtil.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/configuration/model/Server.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/CertificateValidator.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/configuration/UnmarshallingContentHandler.java
* /pax-web-undertow-8-0-22-sources-

jar/org/ops4j/pax/web/service/undertow/internal/configuration/ResolvingContentHandler.java
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jar/org/ops4j/pax/web/service/undertow/configuration/model/SocketBinding.java
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jar/org/ops4j/pax/web/service/undertow/internal/ContextAwarePathHandler.java
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jar/org/ops4j/pax/web/service/undertow/internal/security/JaasIdentityManager.java
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* /pax-web-undertow-8-0-22-sources-
jar/org/ops4j/pax/web/service/undertow/configuration/model/ServletContainer.java
* /pax-web-undertow-8-0-22-sources-
jar/org/ops4j/pax/web/service/undertow/configuration/model/UndertowConfiguration.java
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// see org.wildfly.extension.undertow.deployment.UndertowDeploymentInfoService#getConfidentialPortManager

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* /pax-web-undertow-8-0-22-sources-
jar/org/ops4j/pax/web/service/undertow/internal/UndertowServerController.java
*
 /pax-web-undertow-8-0-22-sources-
jar/org/ops4j/pax/web/service/undertow/internal/PaxWebOuterHandlerWrapper.java
* /pax-web-undertow-8-0-22-sources-
jar/org/ops4j/pax/web/service/undertow/internal/PaxWebPreprocessorsHandler.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebFilterInfo.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/Activator.java
* /pax-web-undertow-8-0-22-sources-
jar/org/ops4j/pax/web/service/undertow/internal/web/FlexibleServletContextImpl.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/FileETagFunction.java

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* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/UndertowResourceServlet.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/FileSessionPersistence.java
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* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/UndertowFactory.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/PaxWebSecurityHandler.java
* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/internal/web/OsgiServletContainerInitializerInfo.java
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* /pax-web-undertow-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/PaxWebUndertowExtension.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/Channels.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/AbstractConvertingIoFuture.java
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 /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/WritableMultipointMessageChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/SuspendableReadChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Xnio.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Buffers.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/ChannelOutputStream.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/StreamSourceChannel.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/NullStreamSinkChannel.java
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 /xnio-api-3-8-10-final-sources-jar/java/nio/channels/FileChannel.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/FixedLengthStreamSourceChannel.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AssembledMessageChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AssembledConnectedSslStreamChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AssembledConnectedChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AssembledSslChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/BrokenPipeException.java

* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AssembledConnectedStreamChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ChannelPipe.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/ConcurrentStreamChannelAccessException.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AssembledConnectedMessageChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/PushBackStreamChannel.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/WriteTimeoutException.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/SuspendableAcceptChannel.java
*
/xnio-api-3-8-10-final-sources-jar/org/xnio/streams/BufferedChannelInputStream.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/BufferPipeOutputStream.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/WriterOutputStream.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Option.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/BufferPipeInputStream.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/ReaderInputStream.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/ByteBufferSlicePool.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Pooled.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/LocalSocketAddress.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/LimitedOutputStream.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/LimitedInputStream.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/XnioXmlParser.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/XnioWorkerConfigurator.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/DefaultXnioWorkerHolder.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/management/XnioProviderMXBean.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/AcceptListenerSettable.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ConduitWritableMessageChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/MessageSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Connection.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/MessageConnection.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/SinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/Conduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/SynchronizedMessageSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseAcceptingSslStreamConnection.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/Conduits.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/http/HttpUpgradeParser.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/PushBackStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/sasl/SaslUnwrappingConduit.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/SourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/StreamSinkChannelWrappingConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/WriteListenerSettable.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ConduitReadableByteChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/FixedLengthStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/SslConnection.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/EmptyStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ConduitStreamSourceChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ConduitReadableMessageChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/SynchronizedStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/sasl/SaslWrappingConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractSynchronizedSinkConduit.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/SynchronizedMessageSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/FramingMessageSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseSslStreamConnection.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ConduitWritableByteChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/FramingMessageSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/WriteReadyHandler.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/BufferedStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ReadReadyHandler.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/BlockingStreamSourceConduit.java

* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/TerminateHandler.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/http/RedirectException.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/AbstractAcceptingSslChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Options.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseSslStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/FileSystemWatcher.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/package-info.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseStreamConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/FileAccess.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/NullStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/MessageStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/ConduitStreamSinkChannel.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/MessageStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/ReadListenerSettable.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/StreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/management/XnioWorkerMXBean.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractSynchronizedConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/XnioIoThread.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/DeflatingStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/InflatingStreamSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/SynchronizedStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/FixedLengthStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/BufferedStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/http/HttpUpgrade.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/MessageSourceConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/FileChangeEvent.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/BlockingStreamSinkConduit.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/FileChangeCallback.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/conduits/AbstractSynchronizedSourceConduit.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/AutomaticReference.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseSslStreamSinkConduit.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/CloseListenerSettable.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/StreamConnection.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/BlockingWritableByteChannel.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/FutureResult.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/ChannelListener.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/OptionMap.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/sasl/SaslStrength.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Sequence.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/TranslatingResult.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/SslChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/BlockingReadableByteChannel.java
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*/
/**
    * A QOP value specifying authentication plus integrity and confidentiality protection.
    */
```

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* /xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseXnioSsl.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/sasl/SaslWrapper.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/BufferAllocator.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/ChannelListeners.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Property.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/SimpleAcceptingChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/sasl/SaslUtils.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/TranslatingSuspendableChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/streams/Streams.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/SplitStreamSinkChannel.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/ChannelFactory.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/channels/SplitStreamSourceChannel.java
*
 /xnio-api-3-8-10-final-sources-jar/org/xnio/_private/Messages.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/CompressionType.java
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* /xnio-api-3-8-10-final-sources-jar/org/xnio/ClosedWorkerException.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/Bits.java
*
/xnio-api-3-8-10-final-sources-jar/org/xnio/ssl/JsseSslUtils.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/SingleOption.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/SequenceOption.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/XnioWorker.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/TypeSequenceOption.java
* /xnio-api-3-8-10-final-sources-jar/org/xnio/TypeOption.java

1.595 websocket-client 9.4.52.v20230823

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* 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
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module is selected.

* java.sun.security.ssl

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

OW2

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

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.597 pax-web-undertow-keycloak 8.0.22

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* /pax-web-undertow-keycloak-8-0-22-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-undertow-keycloak/pom.xml

1.598 xnio-nio 3.8.10.Final

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* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/AbstractNioChannel.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/SelectorUtils.java
*
 /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioTcpServer.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioXnioProvider.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioUdpChannel.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioXnioWorker.java
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#

#
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org.xnio.nio.NioXnioProvider

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* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioUdpChannelHandle.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioSocketStreamConnection.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/AbstractNioStreamConnection.java
*
 /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioTcpServerHandle.java
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* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioPipeSinkConduit.java
* /xnio-nio-3-8-10-final-sources-jar/org/xnio/nio/NioSocketConduit.java
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1.599 pax-web-websocket 8.0.22

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* /pax-web-websocket-8-0-22-sources-jar/org/ops4j/pax/web/websocket/internal/PaxWebWebSocketsServletContainerInitializer.java

1.600 websocket-servlet 9.4.52.v20230823

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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
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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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
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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,
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1.601 stax 4.2.2

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1.602 pax-web-undertow-websocket 8.0.22

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Found in path(s):
* /pax-web-undertow-websocket-8-0-22-sources-jar/META-INF/maven/org.ops4j.pax.web/pax-web-undertow-websocket/pom.xml
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org.ops4j.pax.web.service.undertow.websocket.internal.WebSocketsExtension

Found in path(s):
* /pax-web-undertow-websocket-8-0-22-sources-jar/META-INF/services/org.ops4j.pax.web.service.undertow.PaxWebUndertowExtension
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Found in path(s):
* /pax-web-undertow-websocket-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/websocket/internal/WebSocketsInitializer.java
* /pax-web-undertow-websocket-8-0-22-sources-jar/org/ops4j/pax/web/service/undertow/websocket/internal/WebSocketsExtension.java
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org.ops4j.pax.web.service.undertow.websocket.internal.WebSocketsInitializer
```

Found in path(s):

* /pax-web-undertow-websocket-8-0-22-sources-jar/META-INF/services/javax.servlet.ServletContainerInitializer

1.603 jsp 8.0.22

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1.604 logback-core 2.2.3

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Found in path(s):
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/PaxLoggerImpl.java
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/Activator.java

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* /pax-logging-logback-2-2-3-sources-

jar/org/ops4j/pax/logging/logback/internal/bridges/PaxAppenderDelegate.java
* /pax-logging-logback-2-2-3-sources-jar/org/ops4j/pax/logging/logback/internal/spi/PaxLevelImpl.java
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jar/org/ops4j/pax/logging/logback/internal/spi/PaxLocationInfoForLogback.java
* /pax-logging-logback-2-2-3-sources-
jar/org/ops4j/pax/logging/logback/internal/spi/PaxLoggingEventForLogback.java
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1.605 snappy-java 1.1.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr
ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
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86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macos
x;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dyl

ib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch6
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py/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86-64
,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;
processor=x64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;
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al/snappy/native/AIX/ppc/libsnappyjava.a;osname=aix;processor=ppc,org
/xerial/snappy/native/AIX/ppc64/libsnappyjava.a;osname=aix;processor=
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s;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.s
o;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/
libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
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.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
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6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
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arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.

Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /snappy-java-1-1-10-5-1-jar/META-INF/MANIFEST.MF

1.606 bcpkix-fips 1.0.7

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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-fips-1-0-7-sources-2-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.607 netty-transport-native-epoll 4.1.100.Final

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* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/netty_epoll_linuxsocket.h
* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/netty_epoll_linuxsocket.c
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* /netty-transport-native-epoll-4-1-100-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

1.608 manual 4.4.4

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1.613 curl 8.5.0-r0

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1.616 protobuf-java-util 3.25.1

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Manifest-Version: 1.0
Bnd-LastModified: 1700075044472
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: 3.25.1
Export-Package: com.google.protobuf.util;version="3.25.1";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-3-25-1-jar/META-INF/MANIFEST.MF

1.617 proto-google-common-protos 2.29.0

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* /proto-google-common-protos-2-29-0-jar/google/type/decimal.proto
* /proto-google-common-protos-2-29-0-jar/google/api/config_change.proto
* /proto-google-common-protos-2-29-0-jar/google/cloud/audit/audit_log.proto
* /proto-google-common-protos-2-29-0-jar/google/api/client.proto
* /proto-google-common-protos-2-29-0-jar/google/api/service.proto
* /proto-google-common-protos-2-29-0-jar/google/type/quaternion.proto
* /proto-google-common-protos-2-29-0-jar/google/type/month.proto
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* /proto-google-common-protos-2-29-0-jar/google/rpc/context/audit_context.proto
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* /proto-google-common-protos-2-29-0-jar/google/api/annotations.proto
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* /proto-google-common-protos-2-29-0-jar/google/api/resource.proto
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* /proto-google-common-protos-2-29-0-jar/google/longrunning/operations.proto
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* /proto-google-common-protos-2-29-0-jar/google/logging/type/log_severity.proto
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* /proto-google-common-protos-2-29-0-jar/google/rpc/code.proto

* /proto-google-common-protos-2-29-0-jar/google/type/phone_number.proto
* /proto-google-common-protos-2-29-0-jar/google/api/error_reason.proto
* /proto-google-common-protos-2-29-0-jar/google/geo/type/viewport.proto
* /proto-google-common-protos-2-29-0-jar/google/rpc/context/attribute_context.proto
* /proto-google-common-protos-2-29-0-jar/google/type/money.proto
*
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* /proto-google-common-protos-2-29-0-jar/google/cloud/location/locations.proto
* /proto-google-common-protos-2-29-0-jar/google/api/source_info.proto
* /proto-google-common-protos-2-29-0-jar/google/type/localized_text.proto
* /proto-google-common-protos-2-29-0-jar/google/type/fraction.proto
* /proto-google-common-protos-2-29-0-jar/google/api/auth.proto
* /proto-google-common-protos-2-29-0-jar/google/api/system_parameter.proto
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* /proto-google-common-protos-2-29-0-jar/google/api/backend.proto
* /proto-google-common-protos-2-29-0-jar/google/api/httpbody.proto
* /proto-google-common-protos-2-29-0-jar/google/api/label.proto
*
 /proto-google-common-protos-2-29-0-jar/google/api/log.proto
* /proto-google-common-protos-2-29-0-jar/google/api/metric.proto
* /proto-google-common-protos-2-29-0-jar/google/type/postal_address.proto
* /proto-google-common-protos-2-29-0-jar/google/api/http.proto
* /proto-google-common-protos-2-29-0-jar/google/type/latlng.proto
* /proto-google-common-protos-2-29-0-jar/google/type/timeofday.proto
* /proto-google-common-protos-2-29-0-jar/google/api/billing.proto
* /proto-google-common-protos-2-29-0-jar/google/type/dayofweek.proto
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1.618 httpcomponents-core 5.2.4

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* /protobuf-java-3-25-1-jar/google/protobuf/duration.proto
* /protobuf-java-3-25-1-jar/google/protobuf/field_mask.proto
* /protobuf-java-3-25-1-jar/google/protobuf/type.proto
* /protobuf-java-3-25-1-jar/google/protobuf/any.proto

* /protobuf-java-3-25-1-jar/google/protobuf/source_context.proto
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* /protobuf-java-3-25-1-jar/google/protobuf/wrappers.proto
* /protobuf-java-3-25-1-jar/google/protobuf/api.proto
* /protobuf-java-3-25-1-jar/google/protobuf/timestamp.proto
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Manifest-Version: 1.0
Created-By: mergejars
Bnd-LastModified: 1700075063475
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: 3.25.1
Export-Package: com.google.protobuf;version="3.25.1",com.google.protobuf
.compiler;version="3.25.1";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-3-25-1-jar/META-INF/MANIFEST.MF

1.620 httpcore5-h 5.2.4

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1.631 commons-logging 1.3.0

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1.632 error_prone_annotations 2.23.0

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Found in path(s):
* /error-prone-annotations-2-23-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml
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Manifest-Version: 1.0
Created-By: Maven JAR Plugin 3.2.2
Build-Jdk-Spec: 17
Automatic-Module-Name: com.google.errorprone.annotations

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: 2.23.0
Export-Package: com.google.errorprone.annotations;uses:="javax.lang.mode
l.element";version="2.23.0",com.google.errorprone.annotations.concurren
t;version="2.23.0"
Import-Package: javax.lang.model.element
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
* /error-prone-annotations-2-23-0-jar/META-INF/MANIFEST.MF

1.633 failureaccess 1.0.2

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* /failureaccess-1-0-2-sources-jar/com/google/common/util/concurrent/internal/InternalFutures.java
* /failureaccess-1-0-2-sources-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

1.634 guava 33.0.0-jre

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1.635 gcompat 1.1.0-r4

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1.636 ncurses 6.4_p20231125-r0

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1.637 py3-setuptools 68.2.2-r0

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1.638 py3-parsing 3.1.1-r0

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file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.644 slf4j-impl 2.21.1

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1.646 zstd-jni 1.5.2-1

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Manifest-Version: 1.0
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1642851452470
Bundle-Description: JNI bindings for Zstd native library that provides
 fast and high compression lossless algorithm for Java and all JVM la
nguages.
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;descripti
on=BSD 2-Clause License
Bundle-ManifestVersion: 2
Bundle-Name: zstd-jni
Bundle-NativeCode: darwin/x86_64/libzstd-jni-1.5.2-1.dylib;osname=MacO
S;osname=MacOSX;processor=x86_64, darwin/aarch64/libzstd-jni-1.5.2-1.
dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/lib
zstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libz
std-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzs
td-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd
-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1
.5.2-1.so;osname=Linux;processor=arm,
 linux/i386/libzstd-jni-1.5.2-1.
so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;o
sname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osna
me=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname
=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=L
inux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;
processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;process
or=x86
Bundle-SymbolicName: com.github.luben.zstd-jni
Bundle-Vendor: com.github.luben
Bundle-Version: 1.5.2.1
Created-By: 11.0.14 (Debian)
Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.lub
en.zstd.util;version="1.5.2.1"
Implementation-Title: zstd-jni
Implementation-Vendor: com.github.luben
Implementation-Vendor-Id: com.github.luben
Implementation-Version: 1.5.2-1
Import-Package: org.osgi.framework;resolution:=optional
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.
ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86_64,darwin.aar

ch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11.0))
"
Specification-Title: zstd-jni
Specification-Vendor: com.github.luben
Specification-Version: 1.5.2-1
Tool: Bnd-4.0.0.201805111645

Found in path(s):
* /zstd-jni-1-5-2-1-5-jar/META-INF/MANIFEST.MF

1.647 rfc8342-ietf-datastores 12.0.3

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```
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-datastores</b>
* <pre>
* module ietf-datastores {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-datastores;
*   prefix ds;
*   revision 2018-02-14 {
*
  }
*   identity datastore {
*   }
*   identity conventional {
*     base datastore;
*   }
*   identity running {
*     base conventional;
*   }
*   identity candidate {
*     base conventional;
*   }
*   identity startup {
*     base conventional;
*   }
*   identity intended {
*     base conventional;
*   }
*   identity dynamic {
*     base datastore;
*   }
*   identity operational {
*     base datastore;
*   }
*   typedef datastore-ref {
*     type identityref {
*       base datastore;
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8342-ietf-datastores-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/datastores/rev180214/IetfDatastoresData.java

1.648 netty-threadgroup-config 0.19.3

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* /netty-threadgroup-config-0-19-3-sources-jar/org/opendaylight/controller/config/yang/netty/threadgroup/GlobalBossGroup.java
* /netty-threadgroup-config-0-19-3-sources-jar/org/opendaylight/controller/config/yang/netty/threadgroup/Configuration.java

1.649 rfc8639-parser-support 11.0.4

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* /rfc8639-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8639/parser/RefSubscriptionStateNotificationStatement.java
* /rfc8639-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8639/parser/SubscriptionStateNotificationStatementImpl.java
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1.650 mdsal-dom-api 12.0.3

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* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeReadOperations.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeWriteOperations.java
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* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMRpcProviderService.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMRpcImplementation.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataBrokerExtension.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMRpcException.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeCandidate.java
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 /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMSchemaServiceExtension.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMRpcImplementationRegistration.java
* /mdsal-dom-api-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/api/DOMDataTreeCommitCohortRegistration.java
* /mdsal-dom-api-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/api/DOMRpcImplementationNotAvailableException.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMNotificationRejectedException.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMExtensibleService.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMEvent.java

* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMRpcService.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeChangeListener.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeCommitCohortRegistry.java
*
 /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMRpcAvailabilityListener.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeChangeService.java
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* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMMountPointService.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMNotificationService.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeReadTransaction.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMMountPoint.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMNotification.java
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 /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMDataTreeWriteTransaction.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMService.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMNotificationPublishService.java
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* /mdsal-dom-api-12-0-3-sources-jar/module-info.java
* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/query/DOMQueryResult.java
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* /mdsal-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/dom/api/DOMActionNotAvailableException.java
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* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/GeneratorResult.java
* /mdsal-binding-generator-12-0-3-sources-jar/module-info.java
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* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/TypeBuilderFactory.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OpaqueObjectGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ModuleGenerator.java
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 /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultAnydataRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ListGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/MatchStrategy.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CollisionDomain.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ChoiceGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultContainerRuntimeType.java
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* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultLeafRuntimeType.java
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* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultGroupingRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/ClassPlacement.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CaseGenerator.java

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* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-

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* /mdsal-binding-generator-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultYangDataRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-
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* /mdsal-binding-generator-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultOutputRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/generator/impl/reactor/YangDataGenerator.java
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jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractImplicitGenerator.java
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* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultRpcRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CompositeSchemaTreeGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractGeneratedRuntimeType.java
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 /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OriginalLink.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AugmentResolver.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/AbstractInvokableRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/AbstractInvokableGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultCaseRuntimeType.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/tree/package-info.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/CompositeRuntimeTypeBuilder.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/TargetAugmentEffectiveStatement.java
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 /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/OutputGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultFeatureRuntimeType.java

* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/rt/DefaultTypedefRuntimeType.java
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* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/InvokableRuntimeTypeBuilder.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/reactor/FeatureGenerator.java
* /mdsal-binding-generator-12-0-3-sources-jar/org/opendaylight/mdsal/binding/generator/impl/tree/StatementRepresentation.java
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1.652 yang-model-api 11.0.4

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* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/stmt/IfFeatureAwareDeclaredStatement.java
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* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractModelStatement.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/EffectiveStatementEquivalent.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/stmt/PatternExpression.java
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* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/ContainerLikeCompat.java
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* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/DeviateDefinition.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/AnydataSchemaNode.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/OperationAsContainer.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/stmt/ActionStatement.java
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* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/stmt/BitEffectiveStatement.java
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/yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/RevisionEffectiveStatement.java
* /yang-model-api-11-0-4-sources-
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* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/RevisionDateEffectiveStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/OutputEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/api/stmt/PrefixEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/api/stmt/compat/NotificationNodeContainerCompat.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/EffectiveModelContext.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/EffectiveModelContextListener.java
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jar/org/opendaylight/yangtools/yang/model/api/EffectiveModelContextProvider.java
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* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/MandatoryStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/SchemaTreeAwareEffectiveStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/DefaultStatementAwareDeclaredStatement.java
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 /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/AddedByUsesAware.java
* /yang-model-api-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/model/api/stmt/DataDefinitionAwareDeclaredStatement.java
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jar/org/opendaylight/yangtools/yang/model/api/stmt/MustStatementAwareDeclaredStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/DataTreeAwareEffectiveStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/SchemaTreeEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/api/stmt/NotificationStatementAwareDeclaredStatement.java
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Found in path(s):
* /yang-model-api-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractEffectiveStatement.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/stmt/RootDeclaredStatement.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/UserOrderedAware.java
* /yang-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/api/stmt/RootEffectiveStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/OrderedByAwareEffectiveStatement.java
* /yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/meta/AbstractDeclaredStatement.java
*
/yang-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/api/stmt/TypedefAwareEffectiveStatement.java
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Found in path(s):
* /yang-model-api-11-0-4-sources-jar/META-INF/maven/org.opendaylight.yangtools/yang-model-api/pom.xml

1.653 yang-repo-spi 11.0.4

1.653.1 Available under license :

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Found in path(s):
* /yang-repo-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/spi/SoftSchemaSourceCache.java
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*/

Found in path(s):
* /yang-repo-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceListener.java
* /yang-repo-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceRegistry.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaListenerRegistration.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaSourceCache.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceTransformer.java
* /yang-repo-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/spi/RefcountedRegistration.java
*
 /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/GuavaSchemaSourceCache.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaRepository.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaListenerRegistration.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceRegistration.java
* /yang-repo-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/spi/PotentialSchemaSource.java
* /yang-repo-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/spi/AbstractSchemaSourceRegistration.java
* /yang-repo-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/spi/SchemaSourceProvider.java
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Found in path(s):

* /yang-repo-spi-11-0-4-sources-jar/META-INF/maven/org.opendaylight.yangtools/yang-repo-spi/pom.xml

1.654 rfc8525 12.0.3

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* /rfc8525-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc8525/pom.xml
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* /rfc8525-12-0-3-sources-jar/META-INF/yang/ietf-yang-library@2019-01-04.yang
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/**
* This module provides information about the YANG modules, datastores, and
* datastore schemas used by a network management server. The key words 'MUST',
* 'MUST NOT', 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT',
* 'RECOMMENDED', 'NOT RECOMMENDED', 'MAY', and 'OPTIONAL' in this document are to
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* This version of this YANG module is part of RFC 8525; see the
 RFC itself for
* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-yang-library
* <pre>
* module ietf-yang-library {

```
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-library;
*   prefix yanglib;
*   import ietf-yang-types {
*     prefix yang;
*   }
*   import ietf-inet-types {
*     prefix inet;
*   }
*   import ietf-datastores {
*     prefix ds;
*   }
*   revision 2019-01-04 {
*   }
*   revision 2016-04-09 {
*   }
*   typedef revision-identifier {
*     type string {
*       pattern "\d{4}-\d{2}-\d{2}";
*     }
*   }
*   grouping module-identification-leafs {
*     leaf name {
*       type yang:yang-identifier;
*     }
*     leaf revision {
*       type revision-identifier;
*     }
*   }
*   grouping location-leaf-list {
*     leaf-list location {
*       type inet:uri;
*     }
*   }
*   grouping module-implementation-parameters {
*     leaf-list feature
 {
*       type yang:yang-identifier;
*     }
*     leaf-list deviation {
*       type leafref {
*         path ../../module/name;
*       }
*     }
*   }
*   grouping module-set-parameters {
*     leaf name {
*       type string;
```

```
*     }
*     list module {
*       key name;
*       uses module-identification-leafs;
*       leaf namespace {
*         type inet:uri;
*       }
*       uses location-leaf-list;
*       list submodule {
*         key name;
*         uses module-identification-leafs;
*         uses location-leaf-list;
*       }
*       uses module-implementation-parameters;
*     }
*     list import-only-module {
*       key "name revision";
*       leaf name {
*         type yang:yang-identifier;
*       }
*       leaf revision {
*         type union {
*           type revision-identifier;
*           type string {
*             length 0;
*           }
*         }
*       }
*       leaf namespace {
*         type inet:uri;
*
    }
*       uses location-leaf-list;
*       list submodule {
*         key name;
*         uses module-identification-leafs;
*         uses location-leaf-list;
*       }
*     }
*   }
*   grouping yang-library-parameters {
*     list module-set {
*       key name;
*       uses module-set-parameters;
*     }
*     list schema {
*       key name;
*       leaf name {
```

```
*        type string;
*      }
*      leaf-list module-set {
*        type leafref {
*          path ../../module-set/name;
*        }
*      }
*    }
*    list datastore {
*      key name;
*      leaf name {
*        type ds:datastore-ref;
*      }
*      leaf schema {
*        type leafref {
*          path ../../schema/name;
*        }
*      }
*    }
*  }
*  container yang-library {
*    config false;
*    uses yang-library-parameters;
*    leaf content-id {
*      type string;
*    }
*  }
*  notification yang-library-update {
*    leaf content-id
 {
*      type leafref {
*        path /yanglib:yang-library/yanglib:content-id;
*      }
*    }
*  }
*  grouping module-list {
*    status deprecated;
*    grouping common-leafs {
*      status deprecated;
*      leaf name {
*        type yang:yang-identifier;
*        status deprecated;
*      }
*      leaf revision {
*        type union {
*          type revision-identifier;
*          type string {
*            length 0;
```

```
*          }
*        }
*        status deprecated;
*      }
*    }
*    grouping schema-leaf {
*      status deprecated;
*      leaf schema {
*        type inet:uri;
*      }
*    }
*    list module {
*      key "name revision";
*      status deprecated;
*      uses common-leafs {
*        status deprecated;
*      }
*      uses schema-leaf {
*        status deprecated;
*      }
*      leaf namespace {
*        type inet:uri;
*        status deprecated;
*      }
*      leaf-list
 feature {
*        type yang:yang-identifier;
*        status deprecated;
*      }
*      list deviation {
*        key "name revision";
*        status deprecated;
*        uses common-leafs {
*          status deprecated;
*        }
*      }
*      leaf conformance-type {
*        type enumeration {
*          enum implement {
*          }
*          enum import {
*          }
*        }
*        status deprecated;
*      }
*      list submodule {
*        key "name revision";
*        status deprecated;
```

```
*        uses common-leafs {
*          status deprecated;
*        }
*        uses schema-leaf {
*          status deprecated;
*        }
*      }
*    }
*  }
*  container modules-state {
*    config false;
*    status deprecated;
*    leaf module-set-id {
*      type string;
*      status deprecated;
*    }
*    uses module-list {
*      status deprecated;
*    }
*  }
*  notification yang-library-change
 {
*    status deprecated;
*    leaf module-set-id {
*      type leafref {
*        path /yanglib:modules-state/yanglib:module-set-id;
*      }
*      status deprecated;
*    }
*  }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8525-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/library/rev190104/IetfYangLibraryData.java
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*/
```

Found in path(s):
* /rfc8525-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/library/rev190104/LegacyRevisionUtils.java

1.655 mdsal-eos-common-spi 12.0.3

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Found in path(s):
* /mdsal-eos-common-spi-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/spi/AbstractGenericEntityOwnershipListenerRegistration.java

* /mdsal-eos-common-spi-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/spi/AbstractGenericEntityOwnershipCandidateRegistration.java

1.656 rfc6991-ietf-inet-types 12.0.3

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public DomainName getDomainName() {

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/Host.java
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Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-jar/META-INF/yang/ietf-inet-types@2013-07-15.yang
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/**
* This module contains a collection of generally useful derived YANG data types
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* YANG module is part of RFC 6991; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-inet-types
* <pre>
* module ietf-inet-types {
*   namespace urn:ietf:params:xml:ns:yang:ietf-inet-types;
*   prefix inet;
*   revision 2013-07-15 {
*   }
*   revision
 2010-09-24 {
*   }
*   typedef ip-version {
*   type enumeration {
*   enum unknown {

```
*        value 0;
*      }
*      enum ipv4 {
*        value 1;
*      }
*      enum ipv6 {
*        value 2;
*      }
*    }
*  }
*  typedef dscp {
*    type uint8 {
*      range 0..63;
*    }
*  }
*  typedef ipv6-flow-label {
*    type uint32 {
*      range 0..1048575;
*    }
*  }
*  typedef port-number {
*    type uint16 {
*      range 0..65535;
*    }
*  }
*  typedef as-number {
*    type uint32;
*  }
*  typedef ip-address {
*    type union {
*      type inet:ipv4-address;
*      type inet:ipv6-address;
*    }
*  }
*  typedef ipv4-address {
*    type string {
*      pattern "(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-
5])(%[\p{N}\p{L}]+)?";
*    }
*  }
*  typedef ipv6-address {
*    type string {
*      pattern "((:|[0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(:|[0-9a-fA-F]{0,4}))|(((25[0-
5]|2[0-4][0-9]|[01]?[0-9]?[0-9])\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9]?[0-9]))(%[\p{N}\p{L}]+)?";
 *      pattern "(([^:]+:){6}(([^:]+:[^:]+)|(.*\..*))|((([^:]+:)*[^:]+)?::(([^:]+:)*[^:]+)?)(%.+)?";
*    }
*  }
*  typedef ip-address-no-zone {
```

```
*     type union {
*       type inet:ipv4-address-no-zone;
*       type inet:ipv6-address-no-zone;
*     }
*   }
*   typedef ipv4-address-no-zone {
*     type inet:ipv4-address {
*       pattern [0-9\.]*;
*     }
*   }
*   typedef ipv6-address-no-zone {
*     type inet:ipv6-address {
*       pattern [0-9a-fA-F:\.]*;
*     }
*   }
*   typedef ip-prefix {
*     type union {
*       type inet:ipv4-prefix;
*       type inet:ipv6-prefix;
*     }
*   }
*   typedef ipv4-prefix {
*     type string {
*       pattern "(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-
5])/(([0-9])|([1-2][0-9])|(3[0-2]))";
 *     }
*   }
*   typedef ipv6-prefix {
*     type string {
*       pattern "((:|[0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(:|[0-9a-fA-F]{0,4}))|(((25[0-
5]|2[0-4][0-9]|[01]?[0-9]?[0-9])\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9]?[0-9]))(/(([0-9])|([0-9]{2})|(1[0-1][0-9])|(12[0-
8])))";
*       pattern "(([^:]+:){6}(([^:]+:[^:]+)|(.*\..*)))|((([^:]+:)*[^:]+)?::(([^:]+:)*[^:]+)?)(/.+)";
*     }
*   }
*   typedef domain-name {
*     type string {
*       pattern "((([a-zA-Z0-9_]([a-zA-Z0-9\-_]){0,61})?[a-zA-Z0-9]\.)*([a-zA-Z0-9_]([a-zA-Z0-9\-_]){0,61})?[a-
zA-Z0-9]\.?)|\.";
*       length 1..253;
*     }
*   }
*   typedef host {
*     type union {
*       type inet:ip-address;
*       type inet:domain-name;
*     }
*   }
```

```
*   typedef uri {
*     type string;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/IetfInetTypesData.java
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```

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/IetfInetUtil.java
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```
public DomainName(String _value) {
public DomainName(DomainName source) {
```

Found in path(s):
* /rfc6991-ietf-inet-types-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/inet/types/rev130715/DomainName.java
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```

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1.657 mdsal-eos-binding-adapter 12.0.3

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Found in path(s):
* /mdsal-eos-binding-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/BindingEntityOwnershipCandidateRegistration.java
* /mdsal-eos-binding-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/DOMEntityOwnershipListenerAdapter.java
* /mdsal-eos-binding-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/BindingDOMEntityOwnershipServiceAdapter.java
* /mdsal-eos-binding-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/dom/adapter/BindingEntityOwnershipListenerRegistration.java

1.658 rfc7952 12.0.3

1.658.1 Available under license :

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/**
* This YANG module defines an 'extension' statement that allows for defining
* metadata annotations. Copyright (c) 2016 IETF Trust and the persons identified
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* in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents
* (http://trustee.ietf.org/license-info). This version of this YANG module is
* of RFC 7952 (http://www.rfc-editor.org/info/rfc7952); see the RFC itself for
* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-yang-metadata
* <pre>
* module ietf-yang-metadata {
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-metadata;
*   prefix md;
*   revision 2016-08-05
 {
*   }
*   extension annotation {
*   argument name;
*   }
* }
* </pre>
*
*/

Found in path(s):
* /rfc7952-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/metadata/rev160805/IetfYangMetadataData.java
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* /rfc7952-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc7952/pom.xml
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module ietf-yang-metadata {

 namespace "urn:ietf:params:xml:ns:yang:ietf-yang-metadata";

 prefix "md";

 organization
  "IETF NETMOD (NETCONF Data Modeling Language) Working Group";

 contact
  "WG Web: <https://datatracker.ietf.org/wg/netmod/>

   WG List: <mailto:netmod@ietf.org>

   WG Chair: Lou Berger
             <mailto:lberger@labn.net>

   WG Chair: Kent Watsen
             <mailto:kwatsen@juniper.net>

   Editor: Ladislav Lhotka
             <mailto:lhotka@nic.cz>";

 description
  "This YANG module defines an 'extension' statement that allows
   for defining metadata annotations.

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   authors of the code. All rights reserved.

```
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BSD License set
   forth in Section 4.c of the IETF Trust's Legal Provisions
   Relating to IETF Documents
   (http://trustee.ietf.org/license-info).

   This version of this YANG module is part of RFC 7952
   (http://www.rfc-editor.org/info/rfc7952); see the RFC itself
   for full legal notices.";

revision 2016-08-05 {
  description
    "Initial revision.";
  reference
    "RFC 7952: Defining and Using Metadata with YANG";
}

extension annotation {
  argument name;
  description
    "This extension allows for defining metadata annotations in
     YANG modules.  The 'md:annotation' statement can appear only
     at the top level of a YANG module or submodule, i.e., it
     becomes a new alternative in the ABNF production rule for
     'body-stmts' (Section 14 in RFC 7950).

     The argument of the 'md:annotation' statement defines the name
     of the annotation.  Syntactically, it is a YANG identifier as
     defined in Section 6.2 of RFC
7950.

     An annotation defined with this 'extension' statement inherits
     the namespace and other context from the YANG module in which
     it is defined.

     The data type of the annotation value is specified in the same
     way as for a leaf data node using the 'type' statement.

     The semantics of the annotation and other documentation can be
     specified using the following standard YANG substatements (all
     are optional): 'description', 'if-feature', 'reference',
     'status', and 'units'.

     A server announces support for a particular annotation by
     including the module in which the annotation is defined among
     the advertised YANG modules, e.g., in a NETCONF <hello>
```

message or in the YANG library (RFC 7950). The annotation can
then be attached to any instance of a data node defined in any
YANG module that is advertised by the server.

XML encoding and JSON encoding of annotations are defined in
RFC 7952.";
}
}

Found in path(s):
* /rfc7952-12-0-3-sources-jar/META-INF/yang/ietf-yang-metadata@2016-08-05.yang

1.659 mdsal-singleton-common-api 12.0.3

1.659.1 Available under license :

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* /mdsal-singleton-common-api-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-singleton-common-api/pom.xml
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Found in path(s):
* /mdsal-singleton-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/singleton/common/api/ClusterSingletonServiceRegistration.java
* /mdsal-singleton-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/singleton/common/api/ServiceGroupIdentifier.java
* /mdsal-singleton-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/singleton/common/api/ClusterSingletonServiceProvider.java
* /mdsal-singleton-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/singleton/common/api/ClusterSingletonService.java

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Found in path(s):
* /mdsal-singleton-common-api-12-0-3-sources-jar/module-info.java

1.660 openconfig-model-api 11.0.4

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Found in path(s):
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigRegexpPosixEffectiveStatement.java
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigPosixPatternStatement.java
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigRegexpPosixStatement.java
* /openconfig-model-api-11-0-4-sources-jar/module-info.java
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Found in path(s):
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigVersionStatement.java

* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigHashedValueSchemaNode.java
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigConstants.java
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigStatements.java
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigHashedValueEffectiveStatement.java
*
/openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigHashedValueStatement.java
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigVersionEffectiveStatement.java
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Found in path(s):
* /openconfig-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/model/api/OpenConfigPosixPatternEffectiveStatement.java

1.661 rfc8819-parser-support 11.0.4

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Found in path(s):
* /rfc8819-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/parser/ModuleTagStatementSupport.java
* /rfc8819-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/parser/ModuleTagStatementImpl.java
* /rfc8819-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/parser/ModuleTagEffectiveStatementImpl.java
* /rfc8819-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/parser/RefModuleTagStatement.java
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1.662 cds-access-api 8.0.3

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* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/LocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/AbstractReadTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/Request.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionRequest.java
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Found in path(s):
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/SkipTransactionsResponse.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/SkipTransactionsRequest.java
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* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/AbstractReadPathTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/OutOfSequenceEnvelopeException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/IncrementTransactionSequenceRequest.java
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* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TPCR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ETR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/STS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/RE.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/CCR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/MTR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/SE.java
*
 /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ITSS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/HI.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/RTR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TCS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TF.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/PHR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TAS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/CCF.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/RTS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ETS.java
*
 /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/CCS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ITSR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/TI.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TPCS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TDCR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/FE.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TPR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/CHR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/HF.java

* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/FT.java
*
 /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TCCS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TPS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/MN.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/DHR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/MTS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TAR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/STR.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/CI.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/HS.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/FI.java
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* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/FailureEnvelope.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/MemberName.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionAbortSuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/AbortLocalTransactionRequest.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/OutOfOrderRequestException.java
*
 /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ConnectClientSuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionModification.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/DestroyLocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionDelete.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/RequestSuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/CreateLocalHistoryRequest.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/DeadTransactionException.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/ConnectClientRequest.java
*

/cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionFailure.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/Envelope.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/NotLeaderException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/ResponseEnvelope.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionDoCommitRequest.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/ModifyTransactionSuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/ReadTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/ABIVersion.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/PastVersionException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/ClientIdentifier.java
*
/cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/concepts/UnsupportedRequestException.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionPreCommitSuccess.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionMerge.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/ModifyTransactionRequestBuilder.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionSuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/UnknownHistoryException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/package-info.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/FutureVersionException.java
*
/cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/Response.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/DeadHistoryException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/RequestFailure.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/RequestException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/LocalHistorySuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionAbortRequest.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionCanCommitSuccess.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/concepts/RetiredGenerationException.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/PurgeLocalHistoryRequest.java
*
/cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/commands/TransactionCommitSuccess.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/package-info.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/RequestEnvelope.java
* /cds-access-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/concepts/RuntimeRequestException.java

* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ExistsTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/LocalHistoryFailure.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/AbstractVersionException.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ModifyTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ExistsTransactionSuccess.java
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 /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionWrite.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/AbstractLocalTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/FrontendType.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/package-info.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/Message.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionPreCommitRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/SuccessEnvelope.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/TransactionIdentifier.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/LocalHistoryIdentifier.java
*
 /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/concepts/FrontendIdentifier.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/IncrementTransactionSequenceSuccess.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/CommitLocalTransactionRequest.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionDataModification.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ReadTransactionSuccess.java
* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/ConnectClientFailure.java
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* /cds-access-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/commands/TransactionPurgeResponse.java

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1.663 eos-dom-akka 8.0.3

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* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/EntityRpcHandler.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/bootstrap/command/GetRunningContext.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityOwnerReply.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberDownEvent.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/bootstrap/command/RunningContext.java
*
 /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ActivateDataCenter.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/DataCenterControl.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/DataCenterDeactivated.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/listener/type/EntityTypeListenerRegistry.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/TypeListenerRegistryCommand.java

* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntityBackendRequest.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/CandidatesChanged.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/listener/owner/SingleEntityListenerActor.java
*
/eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/candidate/CandidateRegistry.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/listener/owner/command/InitialOwnerSync.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityRequest.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/OwnerSupervisor.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetCandidatesForEntity.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/bootstrap/command/Terminate.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntitiesRequest.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/RegisterListener.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/StateCheckerReply.java
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/eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/DataCenterActivated.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/GetEntitiesBackendReply.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/StateCheckerCommand.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberReachableEvent.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/checker/command/OwnerDataResponse.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/CandidateRegistration.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/AbstractEntityRequest.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/InternalClusterEvent.java
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/eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/candidate/CandidateRegistryInit.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerChanged.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/registry/candidate/command/CandidateRegistryCommand.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/InitialCandidateSync.java
* /eos-dom-akka-8-0-3-sources-

jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/UnregisterListener.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerSupervisorReply.java
* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/SingleEntityOwnerDataResponse.java
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/AkkaEntityOwnershipService.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/MemberUnreachableEvent.java
* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/OwnerSyncer.java
* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/DeactivateDataCenter.java
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/eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/registry/candidate/command/InternalUpdateResponse.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/ListenerRegistration.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/CandidatesChanged.java
* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/bootstrap/EOSMain.java
* /eos-dom-akka-8-0-3-sources-

jar/org/opendaylight/controller/eos/akka/registry/candidate/command/CandidateRemovalFailed.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/registry/candidate/command/RemovePreviousCandidates.java
* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntityOwnerRequest.java
*
/eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/controller/entity/owners/norev/EntityNameBuilder.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/registry/candidate/command/RegisterCandidate.java
* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/registry/listener/type/EntityTypeListenerActor.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetOwnershipState.java
* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/OwnerSupervisorRequest.java
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/eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/ClearCandidatesResponse.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/AbstractEntityRequest.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/supervisor/command/InitialOwnerSync.java
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* /eos-dom-akka-8-0-3-sources-
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* /eos-dom-akka-8-0-3-sources-jar/org/opendaylight/controller/eos/akka/owner/supervisor/IdleSupervisor.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/registry/listener/type/command/EntityOwnerChanged.java
* /eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetCandidates.java
*
/eos-dom-akka-8-0-3-sources-
jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetOwnerForEntity.java
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jar/org/opendaylight/controller/eos/akka/owner/checker/command/GetEntitiesReply.java

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1.664 cds-access-client 8.0.3

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* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/RecoveringClientActorBehavior.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/AbstractClientActor.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/TxDetails.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/AbstractReceivingClientConnection.java
*
 /cds-access-client-8-0-3-sources-
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* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/ConnectionEntry.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/RecoveredClientActorBehavior.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/BackendInfo.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/TransmitQueue.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/InitialClientActorContext.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/InversibleLock.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/TransmittedConnectionEntry.java
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 /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/ReconnectForwarder.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/InversibleLockException.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/SimpleReconnectForwarder.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/package-info.java
* /cds-access-client-8-0-3-sources-
jar/org/opendaylight/controller/cluster/access/client/AbstractClientActorContext.java
* /cds-access-client-8-0-3-sources-
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* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/InternalCommand.java
* /cds-access-client-8-0-3-sources-
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* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/ClientActorBehavior.java

* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/BackendInfoResolver.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/ClientActorContext.java
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/AbstractClientConnection.java
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Found in path(s):
* /cds-access-client-8-0-3-sources-jar/org/opendaylight/controller/cluster/access/client/RequestTimeoutException.java

1.665 netconf-api 6.0.5

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Found in path(s):
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NamespaceURN.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/CapabilityURN.java
* /netconf-api-6-0-5-sources-jar/module-info.java
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Found in path(s):
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfDeserializerException.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/xml/UnexpectedElementException.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/xml/XmlNetconfConstants.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfSessionListener.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfTerminationReason.java
* /netconf-api-6-0-5-sources-
jar/org/opendaylight/netconf/api/messages/NetconfHelloMessageAdditionalHeader.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/messages/HelloMessage.java
*
 /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/messages/FramingMechanism.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/xml/MissingNameSpaceException.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/xml/UnexpectedNamespaceException.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfSessionListenerFactory.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfMessage.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfSession.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfExiSession.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/NetconfDocumentedException.java
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* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/DocumentedException.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/xml/XmlUtil.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/messages/NotificationMessage.java
* /netconf-api-6-0-5-sources-jar/org/opendaylight/netconf/api/xml/XmlElement.java

1.666 mdsal-binding-runtime-api 12.0.3

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* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/BindingRuntimeContext.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/DefaultBindingRuntimeContext.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/AbstractBindingRuntimeContext.java
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Found in path(s):
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/TypedefRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/AugmentableRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/DataRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/RpcRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/InvokableRuntimeType.java
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* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/OutputRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/LeafRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/KeyRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/ListRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/ChoiceRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/IdentityRuntimeType.java
*
 /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/RuntimeTypeContainer.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/CompositeRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/InputRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/AnydataRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/AugmentRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-

jar/org/opendaylight/mdsal/binding/runtime/api/OpaqueRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/GeneratedRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/RuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/FeatureRuntimeType.java
*
 /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/ContainerLikeRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/RuntimeGeneratedUnion.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/CaseRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/NotificationRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/LeafListRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/ModuleRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/ActionRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/ContainerRuntimeType.java
*
 /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/GroupingRuntimeType.java
* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/AnyxmlRuntimeType.java
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* /mdsal-binding-runtime-api-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/runtime/api/ModuleInfoSnapshot.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/module-info.java
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* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/BindingRuntimeGenerator.java
* /mdsal-binding-runtime-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/api/BindingRuntimeTypes.java

1.667 mdsal-eos-dom-api 12.0.3

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* /mdsal-eos-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipCandidateRegistration.java
* /mdsal-eos-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipService.java
* /mdsal-eos-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntity.java
* /mdsal-eos-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipListenerRegistration.java
* /mdsal-eos-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipListener.java
* /mdsal-eos-dom-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/dom/api/DOMEntityOwnershipChange.java
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1.668 rfc6643-model-api 11.0.4

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* /rfc6643-model-api-11-0-4-sources-jar/module-info.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/IetfYangSmiv2Constants.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccess.java
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* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/AliasSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/SubIdSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/AliasEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/DefValEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/SubIdEffectiveStatement.java
*
 /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/OidSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/ImpliedSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccessEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/DefValSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccessSchemaNode.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/ImpliedEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/OidEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/DisplayHintEffectiveStatement.java
* /rfc6643-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/model/api/DisplayHintSchemaNode.java
*
 /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/DisplayHintStatement.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/SubIdStatement.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/ImpliedStatement.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/MaxAccessStatement.java

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* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/IetfYangSmiv2ExtensionsMapping.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/OidStatement.java
* /rfc6643-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/model/api/AliasStatement.java
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1.669 yang-data-tree-ri 11.0.4

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* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/OperationWithModification.java
* /yang-data-tree-ri-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/data/tree/impl/NoopDataTreeCandidate.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/TreeNode.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/DataTreeState.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTree.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/MandatoryLeafEnforcer.java
*
/yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/node/AbstractModifiedContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/MapEntryModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/UpgradableRootApplyStrategy.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/ModifiedNode.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/RootApplyStrategy.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/LatestOperationHolder.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeSnapshot.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeCandidate.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/LogicalOperation.java
*
/yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/ListModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-
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* /yang-data-tree-ri-11-0-4-sources-
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* /yang-data-tree-ri-11-0-4-sources-
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* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/ValueNodeModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/node/AbstractMutableContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/Version.java
* /yang-data-tree-ri-11-0-4-sources-
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/yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/NotUpgradableRootApplyStrategy.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/LeafSetModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractNodeContainerModificationStrategy.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/node/AbstractContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeModification.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/ModificationApplyOperation.java

* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/di/InMemoryDataTreeFactory.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/ValueNode.java
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/yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/node/MutableTreeNode.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractDataTreeCandidate.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/NodeModification.java
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jar/org/opendaylight/yangtools/yang/data/tree/impl/ExcludedDataSchemaNodeException.java
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jar/org/opendaylight/yangtools/yang/data/tree/impl/UniqueValidationFailedException.java
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jar/org/opendaylight/yangtools/yang/data/tree/impl/MinMaxElementsValidationFailedException.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/UniqueValidation.java
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* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/AutomaticLifecycleMixin.java
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* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/MinMaxElementsValidation.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/node/LazyContainerNode.java
* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractReadyIterator.java
* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/impl/ContainerModificationStrategy.java
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* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractDataTreeTip.java
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* /yang-data-tree-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/leafref/LeafRefDataValidationFailedException.java

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jar/org/opendaylight/yangtools/yang/data/tree/impl/node/LazyMutableContainerNode.java
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* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/leafref/QNameWithPredicate.java
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jar/org/opendaylight/yangtools/yang/data/tree/impl/InMemoryDataTreeModificationCursor.java
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* /yang-data-tree-ri-11-0-4-sources-
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* /yang-data-tree-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/impl/AbstractCursor.java
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1.670 yang-parser-api 11.0.4

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1.671 bcutil-framework-ext 13.0.7

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1.672 mdsal-binding-spi 12.0.3

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1.673 yang-xpath-impl 11.0.4

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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/AntlrXPathParser.java
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/AntlrYangXPathExpression.java
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/FunctionSupport.java
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/AntlrXPathParserFactory.java
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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/InstanceIdentifierParser.java
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/Utils.java
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/ParseTreeUtils.java
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/impl/CapturingErrorListener.java
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Found in path(s):
* /yang-xpath-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/antlr/package-info.java

1.674 ietf-type-util 12.0.3

1.674.1 Available under license :

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*/
/**
* IPv6 address parsing for {@code ietf-inet-types} ipv6-address and ipv6-prefix. This is an internal implementation
* class, not meant to be used directly in any shape or form to the outside world, as the code relies on the fact that
* the strings presented to it have been previously validated to conform to the regular expressions defined in the
YANG
* model.
*
* <p>
* IPv6 routines added by Anton Ivanov on 14.6.2015, revised by Robert Varga
*
* <p>
* BIG FAT WARNING!!!
* Read all of the following before you touch any v6 code or decide to optimize it by invoking a "simple" Guava call.
 *
* <p>
* Java IPv6 is fundamentally broken and Google libraries do not fix it.
*
*   Java will always implicitly rewrite v4 mapped into v6 as a v4 address and there is absolutely no way to
*   override this behaviour
*   Guava libraries cannot parse non-canonical IPv6. They will throw an exception. Even if they did, they re-use
*   the same broken java code underneath
*
* This is why we have to parse v6 by ourselves.
*
* <p>
* The following conversion code is based on inet_cidr_pton_ipv6 in NetBSD.
*
* <p>
* The original BSD code is licensed under standard BSD license. While we are not obliged to provide an attribution,
* credit where credit is due. As far as why it is similar to Sun's sun.net.util please ask Sun why their code has the
* same variable names, comments and code flow.
*/

Found in path(s):
* /ietf-type-util-12-0-3-sources-jar/org/opendaylight/mdsal/model/ietf/type/util/Ipv6Utils.java

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Found in path(s):
* /ietf-type-util-12-0-3-sources-jar/org/opendaylight/mdsal/model/ietf/type/util/Ipv4Utils.java
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* /ietf-type-util-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal.model/ietf-type-util/pom.xml

1.675 logging-markers 13.0.7

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*/
/**
    * Return the SLF4J marker for reporting messages which may contain sensitive information, such as credentials
    * used with an external system. This marker should be used by code components when dumping protocol data, such
    * as NETCONF messages, which may contain user passwords and similar. Logging provider should be configured to
    * redirect messages marked with this marker to a separate location which enjoys a higher level of confidentiality
    * and protection than other messages.
    *
    * @return The confidential marker.
    */

Found in path(s):
* /logging-markers-13-0-7-sources-jar/org/opendaylight/odlparent/logging/markers/Markers.java
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Found in path(s):
* /logging-markers-13-0-7-sources-jar/META-INF/maven/org.opendaylight.odlparent/logging-markers/pom.xml

1.676 yang-data-util 11.0.4

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Found in path(s):
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AbstractMountPointDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/OpaqueContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AnydataNodeDataWithSchema.java

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Found in path(s):
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AbstractStringIdentityrefCodec.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/AbstractModuleStringIdentityrefCodec.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/AbstractModuleStringInstanceIdentifierCodec.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AbstractNamespaceCodec.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/AbstractStringInstanceIdentifierCodec.java
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* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/ListEntryNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/LeafListNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/CompositeNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AbstractNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AnyXmlNodeDataWithSchema.java

* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/ContainerNodeDataWithSchema.java
*
/yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/LeafListEntryNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/LeafNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/ListNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/CaseNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/ChoiceNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/SimpleNodeDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/ParserStreamUtils.java
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* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractListLikeContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ListItemContext.java
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* /yang-data-util-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/data/util/AbstractDynamicMountPointContextFactory.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/MountPointData.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/ImmutableMountPointContext.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/AbstractMountPointContextFactory.java
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* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/QNameCodecUtil.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/CodecCache.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/LazyCodecCache.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/SharedCodecCache.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/TypeAwareCodec.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/PrecomputedCodecCache.java
*
 /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/AbstractCodecFactory.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/codec/NoopCodecCache.java
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* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/DuplicateChildNodeRejectedException.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/MultipleEntryDataWithSchema.java
* /yang-data-util-11-0-4-sources-jar/module-info.java
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* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/AbstractStringUnionCodec.java
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* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/LeafsetEntryInterner.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ChoiceContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/LeafListContext.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractPathMixinContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/LeafInterner.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/LeafListItemContext.java
*
 /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/MapContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/DataSchemaContext.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractCompositeContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ContainerContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/DataSchemaContextTree.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/AbstractContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/ListContext.java
* /yang-data-util-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/util/impl/context/LeafContext.java
* /yang-data-util-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/util/XpathStringParsingPathArgumentBuilder.java

1.677 rfc6643-parser-support 11.0.4

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* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/RefSubIdStatement.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/RefAliasStatement.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/RefImpliedStatement.java
* /rfc6643-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/parser/RefMaxAccessStatement.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/RefOidStatement.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/RefDefValStatement.java
*
 /rfc6643-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/parser/RefDisplayHintStatement.java
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* /rfc6643-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/parser/MaxAccessStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/parser/DisplayHintEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/parser/SubIdStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc6643/parser/DisplayHintStatementImpl.java

* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/ImpliedStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/MaxAccessEffectiveStatementImpl.java
*
/rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/DefValEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/OidStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/AliasStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/OidEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/SubIdStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/OidStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/AliasStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/DefValStatementSupport.java
*
/rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/SubIdEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/AliasEffectiveStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/ImpliedStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/DefValStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/DisplayHintStatementSupport.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/MaxAccessStatementImpl.java
* /rfc6643-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6643/parser/ImpliedEffectiveStatementImpl.java
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Found in path(s):
* /rfc6643-parser-support-11-0-4-sources-jar/META-INF/maven/org.opendaylight.yangtools/rfc6643-parser-support/pom.xml

1.678 atomix-storage 8.0.3

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* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/RegisteredType.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/EntrySerializer.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/KryoEntryOutput.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/KryoEntryInput.java

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* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/FileChannelJournalSegmentReader.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/JournalWriter.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/MappedJournalSegmentWriter.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/Cleaner.java
*
 /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/SegmentedJournalWriter.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/FileChannelJournalSegmentWriter.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/JournalReader.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/Indexed.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/Journal.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/JournalSegment.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/SegmentedJournalReader.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/SegmentedJournal.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/MappedJournalSegmentReader.java
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* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/index/package-info.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/package-info.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/index/SparseJournalIndex.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/index/JournalIndex.java
*
 /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/MappableJournalSegmentWriter.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/package-info.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/MappableJournalSegmentReader.java
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* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/JournalSegmentFile.java
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   */

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* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/BufferAwareByteArrayOutputStream.java
* /atomix-storage-8-0-3-sources-jar/io/atomix/utils/serializer/KryoIOPool.java
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* /atomix-storage-8-0-3-sources-jar/io/atomix/storage/journal/JournalSerdes.java
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1.679 repackaged-akka 8.0.3

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* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/AbstractMessage.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/AbstractParser.java
*
/repackaged-akka-8-0-3-sources-jar/akka/protobuf/InvalidProtocolBufferException.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/WireFormat.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/RpcUtil.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/FieldSet.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/LiteralByteString.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/LazyStringArrayList.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/MessageLite.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/CodedOutputStream.java
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* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/TextFormat.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/RpcController.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/CodedInputStream.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/Message.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/ByteString.java
*
/repackaged-akka-8-0-3-sources-jar/akka/protobuf/RepeatedFieldBuilder.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/Internal.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/MessageOrBuilder.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/Service.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/UnknownFieldSet.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/GeneratedMessage.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/AbstractMessageLite.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/UnmodifiableLazyStringList.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/MessageLiteOrBuilder.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/UninitializedMessageException.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/SmallSortedMap.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/LazyField.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/BlockingService.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/ServiceException.java
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/repackaged-akka-8-0-3-sources-jar/akka/protobuf/RpcCallback.java
* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/ExtensionRegistryLite.java
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* /repackaged-akka-8-0-3-sources-jar/akka/protobuf/SingleFieldBuilder.java
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1.680 mdsal-eos-binding-api 12.0.3

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* /mdsal-eos-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipListenerRegistration.java
* /mdsal-eos-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipListener.java
* /mdsal-eos-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/binding/api/EntityOwnershipService.java
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1.681 restconf-nb 6.0.5

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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/patch/AbstractPatchBodyReader.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/TextParameters.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/JaxRsNorthbound.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/SSESessionHandler.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/rests/services/api/RestconfDataStreamService.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/RestconfDataStreamServiceImpl.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/databind/jaxrs/package-info.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/OperationsContent.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/AbstractSchemaExportBodyWriter.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/MediaTypes.java
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/restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/legacy/QueryParameters.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/databind/jaxrs/QueryParams.java
* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/legacy/NormalizedNodePayload.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/legacy/package-info.java
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jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/patch/AbstractPatchStatusBodyWriter.java
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* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/YinSchemaExportBodyWriter.java
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jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/patch/JsonPatchStatusBodyWriter.java
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jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/errors/StreamWriterWithDisabledValidation.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/errors/RestconfDocumentedExceptionMapper.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/errors/XmlStreamWriterWithDisabledValidation.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/WebSocketInitializer.java
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 /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/StreamsConfiguration.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/ListenersBroker.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/WebSocketSessionHandler.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/services/api/RestconfDataService.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/RestconfImpl.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/handlers/SchemaContextHandler.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/utils/parser/ParserIdentifier.java
* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/utils/RestconfStreamsConstants.java
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/utils/ReadDataTransactionUtil.java
* /restconf-nb-6-0-5-sources-
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/restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/utils/PostDataTransactionUtil.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/Rfc8040.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/BaseListenerInterface.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/CreateStreamUtil.java
* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/spi/AbstractIdentifierAwareJaxRsProvider.java
*
/restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/utils/parser/YangInstanceIdentifierSerializer.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/rests/services/impl/RestconfOperationsServiceImpl.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/utils/DeleteDataTransactionUtil.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/utils/FutureCallbackTx.java
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jar/org/opendaylight/restconf/nb/rfc8040/jersey/providers/patch/JsonPatchBodyReader.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/databind/DatabindProvider.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/databind/DatabindContext.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/AbstractNotificationListenerAdaptor.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/databind/mdsal/DOMDatabindProvider.java
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jar/org/opendaylight/restconf/nb/rfc8040/rests/services/api/RootResourceDiscoveryService.java
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* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/rests/transactions/RestconfTransaction.java
* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/XMLNotificationFormatter.java
* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-

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* /restconf-nb-6-0-5-sources-
jar/org/opendaylight/restconf/nb/rfc8040/streams/listeners/DataTreeCandidateFormatterFactory.java
* /restconf-nb-6-0-5-sources-jar/org/opendaylight/restconf/nb/rfc8040/utils/parser/ParserConstants.java
* /restconf-nb-6-0-5-sources-
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* /restconf-nb-6-0-5-sources-
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1.682 rfc8528-model-api 11.0.4

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* /rfc8528-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8528/model/api/MountPointSchemaNode.java
* /rfc8528-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8528/model/api/MountPointEffectiveStatement.java
* /rfc8528-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8528/model/api/SchemaMountStatements.java
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1.683 restconf-common-models 6.0.5

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```
module sal-remote {

  yang-version 1;
  namespace "urn:opendaylight:params:xml:ns:yang:controller:md:sal:remote";
  prefix "sal-remote";

  organization "Cisco Systems, Inc.";
  contact "Martin Bobak <mbobak@cisco.com>";

  description
       "This module contains the definition of methods related to
        sal remote model.

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```

```
        http://www.eclipse.org/legal/epl-v10.html";

  revision "2014-01-14" {
     description
        "Initial revision";
  }


   typedef q-name {
     type string;
     reference
       "http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/#QName";
   }

  rpc create-data-change-event-subscription
{
     input {
        leaf path {
           type instance-identifier;
           description "Subtree path. ";
        }
      }
      output {
        leaf stream-name {
           type string;
           description "Notification stream name.";
        }
      }
  }

  notification data-changed-notification {
     description "Data change notification.";
     list data-change-event {
        key path;
        leaf path {
           type instance-identifier;
        }
        leaf store {
           type enumeration {
              enum config;
              enum operation;
           }
        }
        leaf operation {
           type enumeration {
              enum created;
              enum updated;
              enum deleted;
```

```
            }
        }
        anyxml data{
            description "DataObject ";

        }
     }
  }

  rpc create-notification-stream {
     input {
        leaf-list notifications {
            type q-name;
            description "Notification QNames";
        }
      }
     output {
        leaf notification-stream-identifier {
            type string;
            description "Unique notification stream identifier, in which notifications will be propagated";
        }
     }
  }

  rpc begin-transaction {
     output {
        anyxml data-modification-transaction{
            description "DataModificationTransaction xml";
        }
     }
  }

}
```

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* /restconf-common-models-6-0-5-sources-jar/META-INF/yang/sal-remote@2014-01-14.yang
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*
* <p>
* This class represents the following YANG schema fragment defined in module <b>sal-remote</b>
* <pre>
```

```
* module sal-remote {
*   yang-version 1;
*   namespace urn:opendaylight:params:xml:ns:yang:controller:md:sal:remote;
*   prefix sal-remote;
*   revision 2014-01-14 {
*   }
*   typedef q-name {
*     type string;
*   }
*   rpc create-data-change-event-subscription {
*     input input {
*       leaf path {
*         type instance-identifier;
*       }
*     }
*     output output {
*       leaf stream-name {
*         type string;
 *       }
*     }
*   }
*   notification data-changed-notification {
*     list data-change-event {
*       key path;
*       leaf path {
*         type instance-identifier;
*       }
*       leaf store {
*         type enumeration {
*           enum config;
*           enum operation;
*         }
*       }
*       leaf operation {
*         type enumeration {
*           enum created;
*           enum updated;
*           enum deleted;
*         }
*       }
*       anyxml data {
*       }
*     }
*   }
*   rpc create-notification-stream {
*     input input {
*       leaf-list notifications {
*         type q-name;
```

```
*       }
*     }
*     output output {
*       leaf notification-stream-identifier {
*         type string;
*       }
*     }
*   }
*   rpc begin-transaction {
*     output output {
*       anyxml data-modification-transaction {
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /restconf-common-models-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/controller/md/sal/remote/rev140114/SalRemoteData.java
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```
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*
* <p>
* This class represents the following YANG schema fragment defined in module <b>odl-device-notification</b>
* <pre>
```

```
* module odl-device-notification {
*   namespace urn:opendaylight:device:notification;
*   prefix device-notifi;
*   import ietf-inet-types {
*     prefix inet;
*   }
*   revision 2022-11-06 {
*   }
*   rpc subscribe-device-notification {
*     input input {
*       leaf path {
*         type instance-identifier;
*       }
*     }
*     output output {
*       leaf stream-path {
*         type inet:uri;
 *       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /restconf-common-models-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/device/notification/rev221106/OdlDeviceNotificationData.java
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```
module odl-device-notification {
 namespace "urn:opendaylight:device:notification";
 prefix "device-notifi";

 import ietf-inet-types {
   prefix inet;
 }

 organization "OpenDaylight";
 contact "Nikhil Soni <nikk.sonitech@gmail.com>";

 description
   "This module contains the definition of methods related to
   device notification model

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```

```
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 revision "2022-11-06" {
  description
    "Initial revision";
 }

 rpc subscribe-device-notification {
  description
    "Subscribe to notifications on specified device.";

  input {
      leaf path {
        type instance-identifier;
        description
 "Device mount point path";
      }
   }
   output {
      leaf stream-path {
        type inet:uri;
        description "Device Notification stream URL";
      }
   }
 }
}
```

Found in path(s):
* /restconf-common-models-6-0-5-sources-jar/META-INF/yang/odl-device-notification@2022-11-06.yang

1.684 mdsal-binding-runtime-spi 12.0.3

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runtime-spi/pom.xml
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* /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/ModuleInfoSnapshotBuilder.java
* /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/ServiceLoaderState.java
* /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/ModuleInfoSnapshotResolver.java
* /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/ForwardingModuleInfoSnapshot.java
* /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/BindingRuntimeHelpers.java
*
 /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/ForwardingBindingRuntimeContext.java
* /mdsal-binding-runtime-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/spi/DefaultModuleInfoSnapshot.java
* /mdsal-binding-runtime-spi-12-0-3-sources-jar/module-info.java

1.685 sal-cluster-admin-api 8.0.3

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1.686 yang-data-spi 11.0.4

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1.687 aaa-authn-api 0.18.3

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* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/AuthenticationService.java

* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/IdMService.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/PasswordCredentials.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/Authentication.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/TokenStore.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/CredentialAuth.java
*
/aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/Credentials.java
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* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/Claim.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/Claim.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/Domains.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/Roles.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/Users.java
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* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/IDMError.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/Role.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/User.java
* /aaa-authn-api-0-18-3-sources-jar/org/opendaylight/aaa/api/model/Domain.java
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1.688 rfc8528-parser-support 11.0.4

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1.689 general-entity 12.0.3

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1.690 bcprov-framework-ext 13.0.7

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1.691 mdsal-binding-dom-codec-api 12.0.3

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* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/MissingSchemaForClassException.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingNormalizedNodeCachingCodec.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/IncorrectNestingException.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/MissingSchemaException.java
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* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingObjectCodecTreeNode.java

* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingDataObjectCodecTreeNode.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingOpaqueObjectCodecTreeNode.java
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* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingYangDataCodecTreeNode.java
* /mdsal-binding-dom-codec-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/api/BindingYangDataCodec.java
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1.692 blueprint 8.0.3

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jar/org/ops4j/pax/web/extender/samples/whiteboard/internal/WhiteboardListener.java
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jar/org/ops4j/pax/web/extender/samples/whiteboard/internal/WhiteboardServlet.java
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* /whiteboard-blueprint-8-0-3-sources-jar/welcome.html
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1.693 aaa-filterchain 0.18.3

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* /aaa-filterchain-0-18-3-sources-jar/org/opendaylight/aaa/filterchain/configuration/impl/CustomFilterAdapterConfigurationImpl.java
* /aaa-filterchain-0-18-3-sources-jar/org/opendaylight/aaa/filterchain/configuration/CustomFilterAdapterListener.java
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1.694 sal-distributed-datastore 8.0.3

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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/akka/osgi/impl/BundleClassLoaderFactory.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/akka/impl/AkkaConfigFactory.java
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* /sal-distributed-datastore-8-0-3-sources-

jar/org/opendaylight/controller/cluster/datastore/actors/DataTreeNotificationListenerRegistrationActor.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/GetInfo.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/utils/CompositeOnComplete.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeChangePublisherActor.java
*
/sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/messages/RegisterDataTreeNotificationListenerReply.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeListenerInfoMXBeanImpl.java
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jar/org/opendaylight/controller/cluster/databroker/CommitStatsMXBeanImpl.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DatastoreContext.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DataStoreVersions.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/exceptions/LocalShardNotFoundException.java
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/sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/messages/ForwardedReadyTransaction.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/ShardRecoveryCoordinator.java
* /sal-distributed-datastore-8-0-3-sources-

jar/org/opendaylight/controller/cluster/datastore/ShardCommitCoordinator.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/exceptions/NoShardLeaderException.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/databroker/ConcurrentDOMDataBroker.java
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jar/org/opendaylight/controller/cluster/datastore/persisted/ShardManagerSnapshot.java
* /sal-distributed-datastore-8-0-3-sources-
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/DSS.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/CT.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/CH.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/MS.java
*
 /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/ST.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/DT.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/utils/RootScatterGather.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/databroker/actors/dds/FailedDataTreeModificationException.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/PT.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/SS.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/SM.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/DS.java
*
 /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/FM.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/PH.java
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jar/org/opendaylight/controller/cluster/datastore/persisted/DisableTrackingPayload.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/config/AbstractModuleShardConfigProvider.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/messages/GetKnownClientsReply.java
* /sal-distributed-datastore-8-0-3-sources-
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* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/modification/WriteModification.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/ShardReadTransaction.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/config/ConfigurationImpl.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/modification/DeleteModification.java
*
 /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/identifiers/ShardIdentifier.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/shardstrategy/ShardStrategyFactory.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/exceptions/TimeoutException.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/messages/CloseTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/messages/LocalShardNotFound.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardTransaction.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ClusterWrapperImpl.java
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jar/org/opendaylight/controller/cluster/datastore/messages/AbortTransaction.java
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jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManager.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/exceptions/NotInitializedException.java

* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/AbstractDataStore.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/modification/MutableCompositeModification.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CanCommitTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/modification/MergeModification.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CloseTransactionChain.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DistributedDataStoreFactory.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/RemotePrimaryShardFound.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/UpdateSchemaContext.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManagerInfo.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/DataExists.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/FindLocalShard.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CreateTransaction.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardReadWriteTransaction.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/DataExistsReply.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/modification/CompositeModification.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardstrategy/DefaultShardStrategy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManagerInfoMBean.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/TerminationMonitor.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/ReadData.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardStats.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ThreePhaseCommitCohortProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/config/Configuration.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardstrategy/ShardStrategy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/ActorInitialized.java

* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardmanager/AbstractShardManagerCreator.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CommitTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CloseTransaction.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CanCommitTransaction.java
*
 /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CreateTransactionReply.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/SerializableMessage.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/identifiers/ShardManagerIdentifier.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/FindPrimary.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/PeerAddressResolved.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/AbortTransactionReply.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/modification/Modification.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/TransactionProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardstrategy/ModuleShardStrategy.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CommitTransaction.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/exceptions/UnknownMessageException.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardmanager/SwitchShardBehavior.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/ReadyLocalTransaction.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/TransactionChainProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/LocalTransactionFactoryImpl.java

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/sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeTransactionParent.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/databroker/AbstractDOMBrokerWriteTransaction.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/TransactionReadyReplyMapper.java
* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/messages/DataTreeChanged.java
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* /sal-distributed-datastore-8-0-3-sources-
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* /sal-distributed-datastore-8-0-3-sources-
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* /sal-distributed-datastore-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/LeaderLocalDelegateFactory.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/TransactionContext.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/UnsignedLongSet.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/ImmutableUnsignedLongSet.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DirectTransactionContextWrapper.java
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/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/UnsignedLongBitmap.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/RootDataTreeChangeListenerActor.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/akka/osgi/impl/OSGiActorSystemProvider.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/TransactionModificationOperation.java
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 /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/OSGiDOMStore.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/RootDataTreeChangeListenerProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/OSGiDatastoreContextIntrospectorFactory.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/OSGiDistributedDataStore.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/GetShardRole.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/ShardLeaderStateChanged.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/config/ModuleShardConfiguration.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/RemoteFindPrimary.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/LocalPrimaryShardFound.java
*
 /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/BatchedModifications.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/config/FileModuleShardConfigProvider.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/GetShardDataTree.java

* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/PrimaryShardInfo.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/LocalTransactionReadySupport.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DefaultDatastoreSnapshotRestore.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/BatchedModificationsReply.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/CreateShard.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/LocalTransactionContext.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/EmptyExternalizable.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DebugThreePhaseCommitCohort.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/TransactionContextCleanup.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/config/ModuleConfig.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/exceptions/ShardLeaderNotRespondingException.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DelayedDataTreeChangeListenerRegistration.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/NoOpDOMStoreThreePhaseCommitCohort.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/config/ShardConfig.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/DatastoreSnapshotList.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DatastoreConfigurationMXBeanImpl.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/SingleCommitCohortProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DelayedTransactionContextWrapper.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DatastoreContextFactory.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/VersionedExternalizableMessage.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DatastoreContextIntrospector.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/config/ModuleShardConfigProvider.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardTransactionMessageRetrySupport.java

* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/akka/impl/ActorSystemProviderImpl.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/LocalTransactionFactory.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/exceptions/AlreadyExistsException.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/AbstractBatchedModificationsCursor.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardTransactionActorFactory.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardManagerGetSnapshotReplyActor.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/SuccessReply.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/shardmanager/ShardPeerAddressResolver.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DatastoreSnapshotRestore.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/persisted/DatastoreSnapshot.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/PrimaryShardInfoFutureCache.java
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* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/modification/AbstractModification.java
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*/

Found in path(s):
* /sal-distributed-datastore-8-0-3-sources-

jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeNotificationPublisherActor.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeChangeListenerPublisherActorProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/AbstractShardDataTreeNotificationPublisherActorProxy.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/FlipShardMembersVotingStatus.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeNotificationPublisher.java
*
/sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/ShardDataTreeChangeListenerPublisher.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/DataTreeModificationOutput.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/DistributedDataStoreInterface.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/utils/NormalizedNodeXMLOutput.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/AbstractThreePhaseCommitMessage.java
* /sal-distributed-datastore-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/messages/ChangeShardMembersVotingStatus.java

1.695 value 2.10.0

1.695.1 Available under license :

Apache-2.0

1.696 rfc6241 6.0.5

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Found in path(s):
* /rfc6241-6-0-5-sources-jar/META-INF/yang/ietf-netconf@2011-06-01.yang
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/**
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* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf</b>
* <pre>
* module ietf-netconf {
*   namespace urn:ietf:params:xml:ns:netconf:base:1.0;
*   prefix nc;
*   import ietf-inet-types {
*     prefix inet;
*   }
*   revision 2011-06-01 {
*   }
*   extension get-filter-element-attributes
 {
*   }
*   feature writable-running {
*   }
*   feature candidate {
*   }
*   feature confirmed-commit {
*     if-feature candidate;
*   }
*   feature rollback-on-error {
*   }
*   feature validate {
*   }
*   feature startup {
*   }
*   feature url {
*   }
*   feature xpath {
*   }
*   typedef session-id-type {
*     type uint32 {
*       range 1..max;
*     }
*   }
*   typedef session-id-or-zero-type {
*     type uint32;
*   }
*   typedef error-tag-type {
*     type enumeration {
*       enum in-use {
*       }
```

```
*       enum invalid-value {
*       }
*       enum too-big {
*       }
*       enum missing-attribute {
*       }
*       enum bad-attribute {
*       }
*       enum unknown-attribute {
*       }
*       enum missing-element {
*       }
*       enum bad-element {
*       }
*       enum unknown-element {
*       }
*       enum unknown-namespace {
*       }
*       enum access-denied {
*       }
*       enum lock-denied {
 *       }
*       enum resource-denied {
*       }
*       enum rollback-failed {
*       }
*       enum data-exists {
*       }
*       enum data-missing {
*       }
*       enum operation-not-supported {
*       }
*       enum operation-failed {
*       }
*       enum partial-operation {
*       }
*       enum malformed-message {
*       }
*     }
*   }
*   typedef error-severity-type {
*     type enumeration {
*       enum error {
*       }
*       enum warning {
*       }
*     }
*   }
```

```
*   typedef edit-operation-type {
*     type enumeration {
*       enum merge {
*       }
*       enum replace {
*       }
*       enum create {
*       }
*       enum delete {
*       }
*       enum remove {
*       }
*     }
*     default merge;
*   }
*   rpc get-config {
*     input input {
*       container source {
*         choice config-source {
*           leaf candidate {
*             if-feature candidate;
*             type empty;
*
    }
*           leaf running {
*             type empty;
*           }
*           leaf startup {
*             if-feature startup;
*             type empty;
*           }
*         }
*       }
*       anyxml filter {
*         nc:get-filter-element-attributes;
*       }
*     }
*     output output {
*       anyxml data {
*       }
*     }
*   }
*   rpc edit-config {
*     input input {
*       container target {
*         choice config-target {
*           leaf candidate {
*             if-feature candidate;
```

```
*           type empty;
*         }
*         leaf running {
*           if-feature writable-running;
*           type empty;
*         }
*       }
*     }
*     leaf default-operation {
*       type enumeration {
*         enum merge {
*         }
*         enum replace {
*         }
*         enum none {
*         }
*       }
*       default merge;
*     }
*     leaf test-option {
*       if-feature
 validate;
*       type enumeration {
*         enum test-then-set {
*         }
*         enum set {
*         }
*         enum test-only {
*         }
*       }
*       default test-then-set;
*     }
*     leaf error-option {
*       type enumeration {
*         enum stop-on-error {
*         }
*         enum continue-on-error {
*         }
*         enum rollback-on-error {
*         }
*       }
*       default stop-on-error;
*     }
*     choice edit-content {
*       anyxml config {
*       }
*       leaf url {
*         if-feature url;
```

```
*          type inet:uri;
*        }
*      }
*    }
*  }
*  rpc copy-config {
*    input input {
*      container target {
*        choice config-target {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            if-feature writable-running;
*
   type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*        }
*      }
*      container source {
*        choice config-source {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*          anyxml config {
*          }
*        }
```

```
*      }
*    }
*  }
*  rpc delete-config {
*    input input {
*      container target {
*        choice config-target {
*          leaf startup {
*            if-feature startup;
*            type empty;
*
 }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*        }
*      }
*    }
*  }
*  rpc lock {
*    input input {
*      container target {
*        choice config-target {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*        }
*      }
*    }
*  }
*  rpc unlock {
*    input input {
*      container target {
*        choice config-target {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
```

```
*           type empty;
*         }
*         leaf startup {
*           if-feature startup;
*           type empty;
*         }
*       }
*     }
*   }
*   rpc get
 {
*     input input {
*       anyxml filter {
*         nc:get-filter-element-attributes;
*       }
*     }
*     output output {
*       anyxml data {
*       }
*     }
*   }
*   rpc close-session {
*   }
*   rpc kill-session {
*     input input {
*       leaf session-id {
*         type session-id-type;
*       }
*     }
*   }
*   rpc commit {
*     if-feature candidate;
*     input input {
*       leaf confirmed {
*         if-feature confirmed-commit;
*         type empty;
*       }
*       leaf confirm-timeout {
*         if-feature confirmed-commit;
*         type uint32 {
*           range 1..max;
*         }
*         units seconds;
*         default 600;
*       }
*       leaf persist {
*         if-feature confirmed-commit;
```

```
*        type string;
*      }
*      leaf persist-id {
*        if-feature confirmed-commit;
*        type string;
*      }
*    }
*  }
*  rpc discard-changes {
*    if-feature candidate;
*  }
 *  rpc cancel-commit {
*    if-feature confirmed-commit;
*    input input {
*      leaf persist-id {
*        type string;
*      }
*    }
*  }
*  rpc validate {
*    if-feature validate;
*    input input {
*      container source {
*        choice config-source {
*          leaf candidate {
*            if-feature candidate;
*            type empty;
*          }
*          leaf running {
*            type empty;
*          }
*          leaf startup {
*            if-feature startup;
*            type empty;
*          }
*          leaf url {
*            if-feature url;
*            type inet:uri;
*          }
*          anyxml config {
*          }
*        }
*      }
*    }
*  }
* }
* </pre>
*
```

*/

Found in path(s):
* /rfc6241-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/netconf/base/_1/_0/rev110601/IetfNetconfData.java
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-->

Found in path(s):
* /rfc6241-6-0-5-sources-jar/META-INF/maven/org.opendaylight.netconf.model/rfc6241/pom.xml

1.697 netty-timer-config 0.19.3

1.697.1 Available under license :

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Found in path(s):
* /netty-timer-config-0-19-3-sources-jar/org/opendaylight/controller/config/yang/netty/timer/OSGiGlobalTimer.java
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Found in path(s):
* /netty-timer-config-0-19-3-sources-jar/org/opendaylight/controller/config/yang/netty/timer/HashedWheelTimerCloseable.java

1.698 rfc8040 12.0.3

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Found in path(s):
* /rfc8040-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc8040/pom.xml
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/**
* This module contains conceptual YANG specifications for basic RESTCONF media
* type definitions used in RESTCONF protocol messages. Note that the YANG
* definitions within this module do not represent configuration data of any kind.
* The 'restconf-media-type' YANG extension statement provides a normative syntax
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* Provisions Relating to IETF Documents (http://trustee.ietf.org/license-info).
* This version of this YANG module is part of RFC 8040; see the RFC itself for
* full legal notices.
*
* <p>
* This class represents
 the following YANG schema fragment defined in module ietf-restconf
* <pre>
* module ietf-restconf {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-restconf;
*   prefix rc;
*   revision 2017-01-26 {
*   }
*   extension yang-data {
*   argument name {
*   yin-element true;
*   }
*   }

```
*   rc:yang-data yang-errors {
*     uses errors;
*   }
*   rc:yang-data yang-api {
*     uses restconf;
*   }
*   grouping errors {
*     container errors {
*       list error {
*         leaf error-type {
*           type enumeration {
*             enum transport {
*             }
*             enum rpc {
*             }
*             enum protocol {
*             }
*             enum application {
*             }
*           }
*         }
*         leaf error-tag {
*           type string;
*         }
*         leaf error-app-tag {
*           type string;
*         }
*         leaf error-path {
*           type instance-identifier;
 *         }
*         leaf error-message {
*           type string;
*         }
*         anydata error-info {
*         }
*       }
*     }
*   }
*   grouping restconf {
*     container restconf {
*       container data {
*       }
*       container operations {
*       }
*       leaf yang-library-version {
*         type string {
*           pattern "\d{4}-\d{2}-\d{2}";
*         }
```

```
*         config false;
*       }
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8040-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/restconf/rev170126/IetfRestconfData.java
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```
module ietf-restconf {
 yang-version 1.1;
 namespace "urn:ietf:params:xml:ns:yang:ietf-restconf";
 prefix "rc";

 organization
   "IETF NETCONF (Network Configuration) Working Group";

 contact
   "WG Web:   <https://datatracker.ietf.org/wg/netconf/>
    WG List:  <mailto:netconf@ietf.org>

    Author:   Andy Bierman
              <mailto:andy@yumaworks.com>

    Author:   Martin Bjorklund
              <mailto:mbj@tail-f.com>

    Author:   Kent Watsen
              <mailto:kwatsen@juniper.net>";

 description
   "This module contains conceptual YANG specifications
    for basic RESTCONF media type definitions used in
    RESTCONF protocol messages.

    Note that the YANG definitions within this module do not
    represent configuration data of any kind.
    The 'restconf-media-type' YANG extension statement
    provides a normative syntax for XML and JSON
    message-encoding purposes.
```

```
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   (http://trustee.ietf.org/license-info).

   This version of this YANG module is part of RFC 8040; see
   the RFC itself for full legal notices.";

revision 2017-01-26 {
  description
    "Initial revision.";
  reference
    "RFC 8040: RESTCONF Protocol.";
}

extension yang-data {
  argument name {
    yin-element true;
  }
  description
    "This extension is used to specify a YANG data template that
     represents conceptual data defined in YANG.  It is
     intended to describe hierarchical data independent of
     protocol context or specific message-encoding
format.
     Data definition statements within a yang-data extension
     specify the generic syntax for the specific YANG data
     template, whose name is the argument of the 'yang-data'
     extension statement.

     Note that this extension does not define a media type.
     A specification using this extension MUST specify the
     message-encoding rules, including the content media type.

     The mandatory 'name' parameter value identifies the YANG
     data template that is being defined.  It contains the
     template name.

     This extension is ignored unless it appears as a top-level
     statement.  It MUST contain data definition statements
     that result in exactly one container data node definition.
     An instance of a YANG data template can thus be translated
     into an XML instance document, whose top-level element
```

```
    corresponds to the top-level container.
    The module name and namespace values for the YANG
module using
    the extension statement are assigned to instance document data
    conforming to the data definition statements within
    this extension.

    The substatements of this extension MUST follow the
    'data-def-stmt' rule in the YANG ABNF.

    The XPath document root is the extension statement itself,
    such that the child nodes of the document root are
    represented by the data-def-stmt substatements within
    this extension.  This conceptual document is the context
    for the following YANG statements:

      - must-stmt
      - when-stmt
      - path-stmt
      - min-elements-stmt
      - max-elements-stmt
      - mandatory-stmt
      - unique-stmt
      - ordered-by
      - instance-identifier data type

    The following data-def-stmt substatements are constrained
    when used within a 'yang-data' extension statement.

      - The list-stmt is not required to have a key-stmt defined.

  - The if-feature-stmt is ignored if present.
      - The config-stmt is ignored if present.
      - The available identity values for any 'identityref'
        leaf or leaf-list nodes are limited to the module
        containing this extension statement and the modules
        imported into that module.
    ";
}

rc:yang-data yang-errors {
  uses errors;
}

rc:yang-data yang-api {
  uses restconf;
}
```

```
grouping errors {
  description
    "A grouping that contains a YANG container
     representing the syntax and semantics of a
     YANG Patch error report within a response message.";

  container errors {
    description
      "Represents an error report returned by the server if
       a request results in an error.";

    list error {
      description
        "An entry containing information about one
         specific error that occurred while processing
         a RESTCONF request.";
      reference
        "RFC 6241,
Section 4.3.";

      leaf error-type {
        type enumeration {
          enum transport {
            description
              "The transport layer.";
          }
          enum rpc {
            description
              "The rpc or notification layer.";
          }
          enum protocol {
            description
              "The protocol operation layer.";
          }
          enum application {
            description
              "The server application layer.";
          }
        }
        mandatory true;
        description
          "The protocol layer where the error occurred.";
      }

      leaf error-tag {
        type string;
        mandatory true;
        description
```

```
        "The enumerated error-tag.";
      }

      leaf error-app-tag {
        type string;
        description
          "The application-specific error-tag.";
      }

      leaf error-path {
        type instance-identifier;
         description
          "The YANG instance identifier associated
           with the error node.";
      }

      leaf error-message {
        type string;
        description
          "A message describing the error.";
      }

      anydata error-info {
         description
          "This anydata value MUST represent a container with
           zero or more data nodes representing additional
           error information.";
      }
    }
  }
}

grouping restconf {
  description
    "Conceptual grouping representing the RESTCONF
     root resource.";

  container restconf {
    description
      "Conceptual container representing the RESTCONF
       root resource.";

    container data {
      description
        "Container representing the datastore resource.
         Represents the conceptual root of all state data
         and configuration data supported by the server.
         The child nodes of this
```

```
container can be any data
        resources that are defined as top-level data nodes
        from the YANG modules advertised by the server in
        the 'ietf-yang-library' module.";
    }

    container operations {
      description
        "Container for all operation resources.

        Each resource is represented as an empty leaf with the
        name of the RPC operation from the YANG 'rpc' statement.

        For example, the 'system-restart' RPC operation defined
        in the 'ietf-system' module would be represented as
        an empty leaf in the 'ietf-system' namespace.  This is
        a conceptual leaf and will not actually be found in
        the module:

          module ietf-system {
            leaf system-reset {
              type empty;
            }
          }

        To invoke the 'system-restart' RPC operation:

          POST /restconf/operations/ietf-system:system-restart

        To discover
the RPC operations supported by the server:

          GET /restconf/operations

        In XML, the YANG module namespace identifies the module:

          <system-restart
            xmlns='urn:ietf:params:xml:ns:yang:ietf-system'/>

        In JSON, the YANG module name identifies the module:

          { 'ietf-system:system-restart' : [null] }
        ";
    }
    leaf yang-library-version {
      type string {
        pattern '\d{4}-\d{2}-\d{2}';
      }
```

```
      config false;
      mandatory true;
      description
        "Identifies the revision date of the 'ietf-yang-library'
         module that is implemented by this RESTCONF server.
         Indicates the year, month, and day in YYYY-MM-DD
         numeric format.";
    }
  }
 }

}
```

Found in path(s):
* /rfc8040-12-0-3-sources-jar/META-INF/yang/ietf-restconf@2017-01-26.yang

1.699 util 11.0.4

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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/xml/UntrustedXML.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/AbstractStringIdentifier.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/AbstractIdentifier.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/AbstractUUIDIdentifier.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/EmptyDeque.java

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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/HashCodeBuilder.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ListenerRegistry.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/UnmodifiableCollection.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/OffsetMapCache.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/UnmodifiableMapPhase.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ImmutableOffsetMap.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/SingletonSet.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/SharedSingletonMap.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ConstantArrayCollection.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ModifiableMapPhase.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/MutableOffsetMap.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/DurationWithTime.java

* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ReadOnlyTrieMap.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/SettableBooleanThreadLocal.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/SettableBoolean.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ConcurrentDurationStatisticsTracker.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ClassLoaderUtils.java
*
/util-11-0-4-sources-jar/org/opendaylight/yangtools/util/SynchronizedDurationStatsTracker.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ReadWriteTrieMap.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ExecutorServiceUtil.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/IOMv1.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/OIOMv1.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/xml/package-info.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/SSv1.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/UIOMv1.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/package-info.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ObjectRegistry.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/SingletonSpliterators.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/FluentFutures.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ImmutableMapTemplate.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/SharedSingletonMapTemplate.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ImmutableOffsetMapTemplate.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/FastThreadPoolExecutor.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/AbstractBatchingExecutor.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/SpecialExecutors.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/TrackingLinkedBlockingQueue.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/QueuedNotificationManager.java
*
 /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/NotificationManager.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/QueuedNotificationManagerMXBeanImpl.java
* /util-11-0-4-sources-
jar/org/opendaylight/yangtools/util/concurrent/DeadlockDetectingListeningExecutorService.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/QueuedNotificationManagerMXBean.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/AsyncNotifyingListenableFutureTask.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/ListenerNotificationQueueStats.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/CountingRejectedExecutionHandler.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/AsyncNotifyingListeningExecutorService.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/CachedThreadPoolExecutor.java
*
 /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/AbstractQueuedNotificationManager.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/PropertyUtils.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/EqualityQueuedNotificationManager.java
* /util-11-0-4-sources-jar/module-info.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/concurrent/IdentityQueuedNotificationManager.java
* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/ForwardingIdentityObject.java
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* /util-11-0-4-sources-jar/org/opendaylight/yangtools/util/EvenMoreObjects.java

1.700 servlet-api 0.18.3

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* /servlet-api-0-18-3-sources-jar/org/opendaylight/aaa/web/servlet/HttpServletBuilder.java
* /servlet-api-0-18-3-sources-jar/org/opendaylight/aaa/web/servlet/ServletSupport.java

1.701 yang-repo-fs 11.0.4

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jar/org/opendaylight/yangtools/yang/model/repo/fs/FilesystemSchemaSourceCache.java

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* /yang-repo-fs-11-0-4-sources-jar/module-info.java

1.702 apache-aries-spifly-dynamic-bundle 1.3.6

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1.703 mdsal-eos-common-api 12.0.3

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* /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/GenericEntity.java
* /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/EntityOwnershipChangeState.java
* /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipCandidateRegistration.java
* /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipListenerRegistration.java
*
 /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipListener.java

* /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/GenericEntityOwnershipChange.java
* /mdsal-eos-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/eos/common/api/EntityOwnershipState.java
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* /mdsal-eos-common-api-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-eos-common-api/pom.xml

1.704 sal-clustering-commons 8.0.3

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* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/schema/provider/impl/YangTextSchemaSourceSerializationProxy.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/schema/provider/impl/RemoteYangTextSourceProviderImpl.java

* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/schema/provider/RemoteYangTextSourceProvider.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/schema/provider/impl/RemoteSchemaProvider.java
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* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/Dispatchers.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/PersistentDataProvider.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/node/utils/transformer/AbstractNormalizedNodePruner.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/MessageTracker.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/NonPersistentDataProvider.java
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* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/messaging/MessageSlice.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/messaging/MessageSlicer.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/messaging/AssemblerSealedException.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/messaging/AbortSlicing.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/messaging/MessageSliceReply.java
*
 /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/messaging/MessageSliceException.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/common/actor/UnboundedDequeBasedControlAwareMailbox.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/io/FileBackedOutputStreamFactory.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/messaging/AssembledMessageState.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/messaging/AssemblerClosedException.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/messaging/SliceOptions.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/io/SharedFileBackedOutputStream.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/messaging/SlicedMessageState.java
*
 /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/messaging/MessageSliceIdentifier.java

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* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/DelegatingPersistentDataProvider.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/ActorSystemProviderListener.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/notifications/LeaderStateChanged.java
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jar/org/opendaylight/controller/cluster/common/actor/QuarantinedMonitorActor.java
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* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/persistence/LocalSnapshotStore.java
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* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/reporting/MetricsReporter.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedActorWithMetering.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedPersistentActor.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/MeteredBoundedMailbox.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedPersistentActorWithMetering.java
*
 /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/notifications/RegisterRoleChangeListener.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/FileAkkaConfigurationReader.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/MeteringBehavior.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/notifications/RegisterRoleChangeListenerReply.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/AkkaConfigurationReader.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/notifications/RoleChangeNotification.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/CommonConfig.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/DataPersistenceProvider.java
* /sal-clustering-commons-8-0-3-sources-

jar/org/opendaylight/controller/cluster/notifications/RoleChangeNotifier.java
*
/sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/common/actor/AbstractUntypedActor.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/Monitor.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/common/actor/UnifiedConfig.java
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* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/node/utils/transformer/UintAdaptingPruner.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/io/ChunkedInputStream.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/node/utils/transformer/ReusableNormalizedNodePruner.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/io/ChunkedByteArray.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/io/ChunkedOutputStream.java
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jar/org/opendaylight/controller/cluster/datastore/node/utils/NormalizedNodeVisitor.java
* /sal-clustering-commons-8-0-3-sources-
jar/org/opendaylight/controller/cluster/datastore/node/utils/NormalizedNodeNavigator.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/notifications/RoleChanged.java
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* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/io/PlainInputOutputStreamSupport.java
* /sal-clustering-commons-8-0-3-sources-jar/org/opendaylight/controller/cluster/io/LZ4InputOutputStreamSupport.java

1.705 rfc8072 12.0.3

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/**
* This module contains conceptual YANG specifications for the YANG Patch and YANG
* Patch Status data structures. Note that the YANG definitions within this module
* do not represent configuration data of any kind. The YANG grouping statements
* provide a normative syntax for XML and JSON message-encoding purposes.
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* of RFC 8072; see the RFC itself for full legal notices.

```
*
* <p>
* This class represents the following YANG schema fragment defined in module
 <b>ietf-yang-patch</b>
* <pre>
* module ietf-yang-patch {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-patch;
*   prefix ypatch;
*   import ietf-restconf {
*     prefix rc;
*   }
*   revision 2017-02-22 {
*   }
*   typedef target-resource-offset {
*     type string;
*   }
*   rc:yang-data yang-patch {
*     uses yang-patch;
*   }
*   rc:yang-data yang-patch-status {
*     uses yang-patch-status;
*   }
*   grouping yang-patch {
*     container yang-patch {
*       leaf patch-id {
*         type string;
*       }
*       leaf comment {
*         type string;
*       }
*       list edit {
*         key edit-id;
*         ordered-by user;
*         leaf edit-id {
*           type string;
*         }
*         leaf operation {
*           type enumeration {
*             enum create {
*             }
*             enum delete {
*             }
*             enum insert {
*             }
*             enum merge {
*
```

```
        }
*         enum move {
*         }
*         enum replace {
*         }
*         enum remove {
*         }
*       }
*     }
*     leaf target {
*       type target-resource-offset;
*     }
*     leaf point {
*       when "(../operation = 'insert' or ../operation = 'move')and (../where = 'before' or ../where = 'after')" {
*       }
*       type target-resource-offset;
*     }
*     leaf where {
*       when "../operation = 'insert' or ../operation = 'move'" {
*       }
*       type enumeration {
*         enum before {
*         }
*         enum after {
*         }
*         enum first {
*         }
*         enum last {
*         }
*       }
*       default last;
*     }
*     anydata value {
*       when "../operation = 'create' or ../operation = 'merge' or ../operation = 'replace' or ../operation = 'insert'"
 {
*       }
*     }
*   }
* }
* grouping yang-patch-status {
*   container yang-patch-status {
*     leaf patch-id {
*       type string;
*     }
*     choice global-status {
*       case global-errors {
*         uses rc:errors;
```

```
*        }
*        leaf ok {
*          type empty;
*        }
*      }
*      container edit-status {
*        list edit {
*          key edit-id;
*          leaf edit-id {
*            type string;
*          }
*          choice edit-status-choice {
*            leaf ok {
*              type empty;
*            }
*            case errors {
*              uses rc:errors;
*            }
*          }
*        }
*      }
*    }
*  }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8072-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/patch/rev170222/IetfYangPatchData.java

1.706 web-api 0.18.3

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* /web-api-0-18-3-sources-jar/org/opendaylight/aaa/web/WebServer.java
* /web-api-0-18-3-sources-jar/org/opendaylight/aaa/web/WebContextSecurer.java
* /web-api-0-18-3-sources-jar/org/opendaylight/aaa/web/WebContext.java
* /web-api-0-18-3-sources-jar/org/opendaylight/aaa/web/ServletDetails.java
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* /web-api-0-18-3-sources-jar/META-INF/maven/org.opendaylight.aaa.web/web-api/pom.xml

1.707 ietf-topology 2013.10.21.24.3

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Found in path(s):
* /ietf-topology-2013-10-21-24-3-sources-jar/META-INF/maven/org.opendaylight.mdsal.model/ietf-topology/pom.xml

1.708 aaa-shiro 0.18.3

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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/moon/MoonTokenEndpoint.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/MoonRealm.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/moon/MoonPrincipal.java
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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/MdsalRealm.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/util/TokenUtils.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/util/http/header/HeaderUtils.java
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* /aaa-shiro-0-18-3-sources-jar/META-INF/maven/org.opendaylight.aaa/aaa-shiro/pom.xml
* /aaa-shiro-0-18-3-sources-jar/OSGI-INF/blueprint/impl-blueprint.xml
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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/web/env/ShiroWebContextSecurer.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/web/env/WebInitializer.java
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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/ODLJndiLdapRealm.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/TokenAuthRealm.java
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* /aaa-shiro-0-18-3-sources-
jar/org/opendaylight/aaa/shiro/realm/mapping/impl/BestAttemptGroupToRolesMappingStrategy.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/filters/AuthenticationTokenUtils.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/filters/AAAShiroFilter.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/filters/AuthenticationListener.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/ODLJndiLdapRealmAuthNOnly.java
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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/idm/DomainHandler.java

* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/idm/RoleHandler.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/idm/IdmLightApplication.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/idm/UserHandler.java
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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/keystone/domain/KeystoneAuth.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/util/http/UntrustedSSL.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/util/http/SimpleHttpRequest.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/util/http/SimpleHttpClient.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/KeystoneAuthRealm.java
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Found in path(s):
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/ODLJdbcRealm.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/ODLActiveDirectoryRealm.java
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* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/realm/MDSALDynamicAuthorizationFilter.java
* /aaa-shiro-0-18-3-sources-jar/org/opendaylight/aaa/shiro/principal/ODLPrincipalImpl.java
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1.709 yang-data-codec-binfmt 11.0.4

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* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LegacyPathArgument.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumNode.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LegacyMountPointIdentifier.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractLegacyDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LegacyAugmentationIdentifier.java
*
 /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumPathArgument.java
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* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractDataTreeCandidateNode.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/DeletedDataTreeCandidateNode.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/ModifiedDataTreeCandidateNode.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractNormalizedNodeDataOutput.java
*
 /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/TokenTypes.java
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* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NeonSR2Tokens.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumDataOutput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumValue.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumValue.java
*
 /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/ForwardingNormalizedNodeDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/PotassiumDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractMagnesiumDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/SodiumSR1DataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumPathArgument.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NormalizedNodeStreamVersion.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractNormalizedNodeDataInput.java
*
 /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/ForwardingDataInput.java

* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/MagnesiumNode.java
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* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NormalizedNodeDataOutput.java

* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/NormalizedNodeDataInput.java
* /yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/LithiumNode.java
*
/yang-data-codec-binfmt-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/codec/binfmt/AbstractLithiumDataInput.java

1.710 rfc8342-ietf-origin 12.0.3

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* This YANG module defines an 'origin' metadata annotation and a set of
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* part of RFC 8342 (https://www.rfc-editor.org/info/rfc8342); see the RFC itself
* for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-origin

```
* <pre>
* module ietf-origin {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-origin;
*   prefix or;
*   import
 ietf-yang-metadata {
*     prefix md;
*   }
*   revision 2018-02-14 {
*   }
*   identity origin {
*   }
*   identity intended {
*     base origin;
*   }
*   identity dynamic {
*     base origin;
*   }
*   identity system {
*     base origin;
*   }
*   identity learned {
*     base origin;
*   }
*   identity default {
*     base origin;
*   }
*   identity unknown {
*     base origin;
*   }
*   typedef origin-ref {
*     type identityref {
*       base origin;
*     }
*   }
*   md:annotation origin {
*     type origin-ref;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8342-ietf-origin-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/origin/rev180214/IetfOriginData.java

1.711 aaa-encrypt-service 0.18.3

1.711.1 Available under license :

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Found in path(s):
* /aaa-encrypt-service-0-18-3-sources-jar/org/opendaylight/aaa/encrypt/PKIUtil.java
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Found in path(s):
* /aaa-encrypt-service-0-18-3-sources-jar/org/opendaylight/aaa/encrypt/AAAEncryptionService.java

1.712 rfc8040-parser-support 11.0.4

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Found in path(s):
* /rfc8040-parser-support-11-0-4-sources-jar/META-INF/maven/org.opendaylight.yangtools/rfc8040-parser-support/pom.xml

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* /rfc8040-parser-support-11-0-4-sources-jar/module-info.java
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Found in path(s):
* /rfc8040-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8040/parser/package-info.java
* /rfc8040-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc8040/parser/YangDataStatementSupport.java
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Found in path(s):
* /rfc8040-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc8040/parser/YangDataStatementImpl.java
* /rfc8040-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc8040/parser/OperationsCreateLeafStatements.java
* /rfc8040-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc8040/parser/RefYangDataStatement.java
* /rfc8040-parser-support-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc8040/parser/OperationsValidateModuleAction.java
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Found in path(s):
* /rfc8040-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8040/parser/YangDataEffectiveStatementImpl.java

1.713 rfc8040-ietf-restconf-monitoring 6.0.5

1.713.1 Available under license :

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Found in path(s):
* /rfc8040-ietf-restconf-monitoring-6-0-5-sources-jar/META-INF/maven/org.opendaylight.netconf.model/rfc8040-ietf-restconf-monitoring/pom.xml
No license file was found, but licenses were detected in source scan.

```
module ietf-restconf-monitoring {
   namespace "urn:ietf:params:xml:ns:yang:ietf-restconf-monitoring";
   prefix "rcmon";

   import ietf-yang-types { prefix yang; }
   import ietf-inet-types { prefix inet; }

   organization
     "IETF NETCONF (Network Configuration) Working Group";

   contact
     "WG Web:   <https://datatracker.ietf.org/wg/netconf/>
      WG List:  <mailto:netconf@ietf.org>

      Author:   Andy Bierman
                <mailto:andy@yumaworks.com>

      Author:   Martin Bjorklund
```

```
            <mailto:mbj@tail-f.com>

       Author:   Kent Watsen
            <mailto:kwatsen@juniper.net>";

    description
      "This module contains monitoring information for the
      RESTCONF protocol.

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      authors of the code.  All rights reserved.

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forms, with or
      without modification, is permitted pursuant to, and subject
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      Relating to IETF Documents
      (http://trustee.ietf.org/license-info).

      This version of this YANG module is part of RFC 8040; see
      the RFC itself for full legal notices.";

    revision 2017-01-26 {
      description
        "Initial revision.";
      reference
        "RFC 8040: RESTCONF Protocol.";
    }

    container restconf-state {
      config false;
      description
        "Contains RESTCONF protocol monitoring information.";

      container capabilities {
        description
          "Contains a list of protocol capability URIs.";

        leaf-list capability {
          type inet:uri;
          description
            "A RESTCONF protocol capability URI.";
        }
      }

      container streams {
```

```
    description
      "Container representing the notification event streams
       supported by the server.";
    reference
      "RFC 5277, Section 3.4, <streams> element.";

    list stream {
      key name;
      description
        "Each entry describes an event stream supported by
         the server.";

      leaf name {
        type string;
        description
          "The stream name.";
        reference
          "RFC 5277, Section 3.4, <name> element.";
      }

      leaf description {
        type string;
        description
          "Description of stream content.";
        reference
          "RFC 5277, Section 3.4, <description> element.";
      }

      leaf replay-support {
        type boolean;
        default false;
        description
          "Indicates if replay buffer is supported for this stream.
           If 'true',
then the server MUST support the 'start-time'
           and 'stop-time' query parameters for this stream.";
        reference
          "RFC 5277, Section 3.4, <replaySupport> element.";
      }

      leaf replay-log-creation-time {
        when "../replay-support" {
          description
            "Only present if notification replay is supported.";
        }
        type yang:date-and-time;
        description
          "Indicates the time the replay log for this stream
```

```
            was created.";
          reference
            "RFC 5277, Section 3.4, <replayLogCreationTime>
             element.";
        }

        list access {
          key encoding;
          min-elements 1;
          description
            "The server will create an entry in this list for each
             encoding format that is supported for this stream.
             The media type 'text/event-stream' is
expected
             for all event streams.  This list identifies the
             subtypes supported for this stream.";

          leaf encoding {
            type string;
            description
              "This is the secondary encoding format within the
               'text/event-stream' encoding used by all streams.
               The type 'xml' is supported for XML encoding.
               The type 'json' is supported for JSON encoding.";
          }

          leaf location {
            type inet:uri;
            mandatory true;
            description
              "Contains a URL that represents the entry point
               for establishing notification delivery via
               server-sent events.";
          }
        }
      }
    }
  }
}
```

Found in path(s):
* /rfc8040-ietf-restconf-monitoring-6-0-5-sources-jar/META-INF/yang/ietf-restconf-monitoring@2017-01-26.yang
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```
/**
* This module contains monitoring information for the RESTCONF protocol.
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* (http://trustee.ietf.org/license-info). This version of this YANG module is
* of RFC 8040; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-restconf-monitoring
* <pre>
* module ietf-restconf-monitoring {
*   namespace urn:ietf:params:xml:ns:yang:ietf-restconf-monitoring;
*   prefix rcmon;
*   import ietf-yang-types {
*   prefix yang;
*   }
*   import ietf-inet-types
 {
*   prefix inet;
*   }
*   revision 2017-01-26 {
*   }
*   container restconf-state {
*   config false;
*   container capabilities {
*   leaf-list capability {
*   type inet:uri;
*   }
*   }
*   container streams {
*   list stream {
*   key name;
*   leaf name {
*   type string;
*   }
*   leaf description {
*   type string;
*   }
*   leaf replay-support {
*   type boolean;
*   default false;
*   }
*   leaf replay-log-creation-time {
*   when ../replay-support {
*   }
*   type yang:date-and-time;
*   }
*   list access {
*   key encoding;

```
*          min-elements 1;
*          leaf encoding {
*            type string;
*          }
*          leaf location {
*            type inet:uri;
*          }
*        }
*      }
*    }
*  }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8040-ietf-restconf-monitoring-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/restconf/monitoring/rev170126/IetfRestconfMonitoringData.java

1.714 servlet-jersey2 0.18.3

1.714.1 Available under license :

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* /servlet-jersey2-0-18-3-sources-jar/META-INF/maven/org.opendaylight.aaa.web/servlet-jersey2/pom.xml
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```

Found in path(s):

* /servlet-jersey2-0-18-3-sources-jar/org/opendaylight/aaa/web/servlet/jersey2/JerseyServletSupport.java
* /servlet-jersey2-0-18-3-sources-jar/org/opendaylight/aaa/web/servlet/jersey2/JerseyHttpServletBuilder.java

1.715 aaa-shiro-api 0.18.3

1.715.1 Available under license :

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public Domains getDomains() {
public Domains getDomains() {
public Domains nonnullDomains() {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/AuthenticationBuilder.java
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public DomainsKey(@NonNull String _domainid) {
public DomainsKey(DomainsKey source) {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/domains/DomainsKey.java
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Found in path(s):

* /aaa-shiro-api-0-18-3-sources-jar/org/opendaylight/aaa/api/shiro/principal/ODLPrincipal.java
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public DomainsBuilder() {
public DomainsBuilder(Domains base) {
public DomainsBuilder setDomains(final Map<DomainsKey,
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.aaa.rev161214.authentication.domains.Domains> values) {
public DomainsBuilder addAugmentation(Augmentation<Domains> augmentation) {
public DomainsBuilder removeAugmentation(Class<? extends Augmentation<Domains>> augmentationType) {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/DomainsBuilder.java
No license file was found, but licenses were detected in source scan.

public DomainsBuilder() {
public DomainsBuilder(Domain arg) {
public DomainsBuilder(Domains base) {
public DomainsKey key() {
public DomainsBuilder withKey(final DomainsKey key) {
public DomainsBuilder setDescription(final String value) {
public DomainsBuilder setDomainid(final String value) {
public DomainsBuilder setName(final String value) {
public DomainsBuilder addAugmentation(Augmentation<Domains> augmentation) {
public DomainsBuilder removeAugmentation(Class<? extends Augmentation<Domains>> augmentationType) {
public DomainsKey key() {

Found in path(s):
* /aaa-shiro-api-0-18-3-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/params/xml/ns/yang/aaa/rev161214/authentication/domains/DomainsBuilder.java

1.716 threadpool-config-impl 0.19.3

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Found in path(s):
* /threadpool-config-impl-0-19-3-sources-jar/org/opendaylight/controller/config/threadpool/util/FixedThreadPoolWrapper.java
* /threadpool-config-impl-0-19-3-sources-jar/org/opendaylight/controller/config/threadpool/util/FlexibleThreadPoolWrapper.java
* /threadpool-config-impl-0-19-3-sources-jar/org/opendaylight/controller/config/threadpool/util/ScheduledThreadPoolWrapper.java
* /threadpool-config-impl-0-19-3-sources-jar/org/opendaylight/controller/config/threadpool/util/NamingThreadPoolFactory.java

1.717 yang-data-impl 11.0.4

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Found in path(s):
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/UnmodifiableChildrenMap.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNormalizedNodeStreamWriter.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNodes.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/DeserializationException.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/ValueWithQName.java
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* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/AbstractMountPointChild.java
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Found in path(s):
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/SchemaOrderedNormalizedNodeWriter.java
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Found in path(s):
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNormalizedMountpoints.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/NormalizationResultHolder.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNormalizedMountPoint.java
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* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableMountPointNormalizedNodeStreamWriter.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/LazyLeafOperations.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableMetadataNormalizedNodeStreamWriter.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/AbstractNormalizableAnydata.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/AbstractDataStringCodec.java
*
 /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/LazyValues.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableAnydataNodeBuilder.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ReusableImmutableNormalizedNodeStreamWriter.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableMetadataExtension.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ImmutableNormalizedMetadata.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/NormalizationResultBuilder.java
* /yang-data-impl-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/data/impl/schema/InterningLeafNodeBuilder.java
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Found in path(s):
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableLeafSetNodeBuilder.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableMapNodeBuilder.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/codec/TypeDefinitionAwareCodec.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/AbstractImmutableNormalizedSimpleValueNode.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableAnyXmlNodeBuilder.java
*
 /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableContainerNodeBuilder.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/valid/DataValidationException.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/AbstractImmutableDataContainerNode.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableUnkeyedListEntryNodeBuilder.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/AbstractImmutableNormalizedNodeBuilder.jav
a
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/DataStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/Builders.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableLeafSetEntryNodeBuilder.java
*
 /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/AbstractImmutableNormalizedValueNode.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableUserMapNodeBuilder.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableChoiceNodeBuilder.java
* /yang-data-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/AbstractImmutableDataContainerNodeBuilder.j
ava

* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/valid/DataNodeContainerValidator.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableLeafNodeBuilder.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableUserLeafSetNodeBuilder.java
*
 /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableUnkeyedListNodeBuilder.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/builder/impl/ImmutableMapEntryNodeBuilder.java
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* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/ResultAlreadySetException.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/nodes/CloneableMap.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/BitsStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/BooleanStringCodec.java
*
 /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/schema/InterningLeafSetNodeBuilder.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int8StringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/StringPatternCheckingCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/StringStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Uint8StringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Uint64StringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/DecimalStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/AbstractIntegerStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int16StringCodec.java
*
 /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Uint16StringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int64StringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/EnumStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/BinaryStringCodec.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Int32StringCodec.java

* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/CompiledPatternContext.java
* /yang-data-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/impl/codec/Uint32StringCodec.java

1.718 aaa-password-service-api 0.18.3

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* /aaa-password-service-api-0-18-3-sources-jar/org/opendaylight/aaa/api/password/service/PasswordHashService.java

1.719 cds-dom-api 8.0.3

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* /cds-dom-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/dom/api/LeaderLocation.java
* /cds-dom-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/dom/api/package-info.java
* /cds-dom-api-8-0-3-sources-
jar/org/opendaylight/controller/cluster/dom/api/LeaderLocationListenerRegistration.java

1.720 yang-model-export 11.0.4

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* /yang-model-export-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/export/YangTextSnippet.java
* /yang-model-export-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/export/ModuleNamespaceContext.java
* /yang-model-export-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/export/YangTextSnippetIterator.java
* /yang-model-export-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/export/YinXMLEventReader.java
* /yang-model-export-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/export/YinXMLEventReaderFactory.java
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1.721 cds-mgmt-api 8.0.3

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* /cds-mgmt-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/jmx/mbeans/DatastoreConfigurationMXBean.java
* /cds-mgmt-api-8-0-3-sources-jar/org/opendaylight/controller/cluster/mgmt/api/FollowerInfo.java

1.722 yang-parser-reactor 11.0.4

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* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ReplicaStatementContext.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/AbstractResumedStatement.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/SweptNamespace.java
* /yang-parser-reactor-11-0-4-sources-jar/module-info.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ReactorStmtCtx.java
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* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/OriginalStmtCtx.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/EffectiveInstances.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/UndeclaredStmtCtx.java
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* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/ReactorDeclaredModel.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/BuildGlobalContext.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/NamespaceAccess.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/StatementContextBase.java
*
 /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/RootStatementContext.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/StatementContextWriter.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/AbstractNamespaceStorage.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/StatementDefinitionContext.java
* /yang-parser-reactor-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/stmt/reactor/EffectiveSchemaContext.java
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1.723 rfc8819-model-api 11.0.4

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* /rfc8819-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/model/api/IetfTags.java
* /rfc8819-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagConstants.java
* /rfc8819-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/model/api/Prefix.java
* /rfc8819-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagEffectiveStatement.java
* /rfc8819-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/model/api/Tag.java
*
 /rfc8819-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8819/model/api/ModuleTagStatements.java

1.724 odlext-model-api 11.0.4

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jar/org/opendaylight/yangtools/odlext/model/api/ContextInstanceEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/odlext/model/api/RpcContextReferenceEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/odlext/model/api/ContextReferenceEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/InstanceTargetStatement.java
* /odlext-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/odlext/model/api/InstanceTargetEffectiveStatement.java
*
 /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/MountStatement.java
* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/MountEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/odlext/model/api/AugmentIdentifierEffectiveStatement.java
* /odlext-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/odlext/model/api/RpcContextReferenceStatement.java

* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/AugmentIdentifierStatement.java
* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/ContextInstanceStatement.java
* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/ContextReferenceStatement.java
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* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/OpenDaylightExtensionsConstants.java
* /odlext-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/model/api/OpenDaylightExtensionsStatements.java

1.725 rfc6536-parser-support 11.0.4

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* /rfc6536-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/parser/DefaultDenyWriteStatementImpl.java
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* /rfc6536-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/parser/DefaultDenyAllStatementSupport.java
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* /rfc6536-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/parser/DefaultDenyAllStatementImpl.java
* /rfc6536-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/parser/RefDefaultDenyWriteStatement.java
* /rfc6536-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/parser/DefaultDenyAllEffectiveStatementImpl.java

1.726 yang-model-util 11.0.4

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jar/org/opendaylight/yangtools/yang/model/util/FilteringSchemaContextProxy.java
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jar/org/opendaylight/yangtools/yang/model/util/EffectiveAugmentationSchema.java
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1.727 yang-binding 12.0.3

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* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/NotificationListener.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Key.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/ChildOf.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/DataContainer.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/RpcService.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/InstanceIdentifier.java
*
 /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/YangModuleInfo.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/package-info.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/DataObject.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/KeyAware.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/RpcInput.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/contract/Naming.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Augmentable.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/DataRoot.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Notification.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Augmentation.java

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* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/YangFeatureProvider.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Rpc.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/BindingContract.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/BitsTypeObject.java
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* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Annotation.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/AbstractOpaqueObject.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/ValueAware.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/AbstractAugmentable.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/AbstractOpaqueData.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/OpaqueData.java
*
 /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/KeyedListNotification.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/EventInstantAware.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/AnnotationAware.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/BaseNotification.java
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* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/RegexPatterns.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/CodeHelpers.java

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* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/KeyedInstanceIdentifierV2.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/Action.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/RpcOutput.java
* /yang-binding-12-0-3-sources-jar/org/opendaylight/yangtools/yang/binding/ChoiceIn.java
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1.728 aaa-tokenauthrealm 0.18.3

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* /aaa-tokenauthrealm-0-18-3-sources-jar/org/opendaylight/aaa/tokenauthrealm/auth/HttpBasicAuth.java
* /aaa-tokenauthrealm-0-18-3-sources-jar/org/opendaylight/aaa/tokenauthrealm/auth/ClaimBuilder.java
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jar/org/opendaylight/aaa/tokenauthrealm/auth/PasswordCredentialBuilder.java
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1.729 sal-common-util 8.0.3

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* /sal-common-util-8-0-3-sources-jar/org/opendaylight/controller/md/sal/common/util/jmx/ThreadExecutorStats.java
* /sal-common-util-8-0-3-sources-jar/org/opendaylight/controller/md/sal/common/util/jmx/ThreadExecutorStatsMXBeanImpl.java
* /sal-common-util-8-0-3-sources-jar/org/opendaylight/controller/md/sal/common/util/jmx/ThreadExecutorStatsMXBean.java

1.730 rfc8040-model-api 11.0.4

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* /rfc8040-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8040/model/api/YangDataStatement.java
* /rfc8040-model-api-11-0-4-sources-
jar/org/opendaylight/yangtools/rfc8040/model/api/YangDataEffectiveStatement.java
* /rfc8040-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8040/model/api/YangDataSchemaNode.java
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Found in path(s):
* /rfc8040-model-api-11-0-4-sources-jar/META-INF/maven/org.opendaylight.yangtools/rfc8040-model-api/pom.xml

1.731 yang-repo-api 11.0.4

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* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/YangIRSchemaSource.java
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* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/DelegatedYinTextSchemaSource.java
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* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/StatementParserMode.java
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Found in path(s):
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/YinXmlSchemaSource.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/YangSchemaSourceRepresentation.java
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/YinTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/YinDomSchemaSource.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/YinSchemaSourceRepresentation.java
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Found in path(s):
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/DelegatedYangTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/YinTextFileSchemaSource.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/YangTextFileSchemaSource.java
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Found in path(s):
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/ResourceYinTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/ResourceYangTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/YangTextSchemaSource.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaSourceRepresentation.java
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/SourceIdentifier.java
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaSourceFilter.java
*
 /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaSourceException.java
* /yang-repo-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaRepository.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/MissingSchemaSourceException.java
* /yang-repo-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaResolutionException.java
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* /yang-repo-api-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/model/repo/api/SchemaContextFactoryConfiguration.java
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1.732 concepts 11.0.4

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Found in path(s):
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Identifiable.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/ObjectRegistration.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Delegator.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Immutable.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Identifier.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/ListenerRegistration.java

* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Registration.java
*
 /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/AbstractObjectRegistration.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Mutable.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/AbstractListenerRegistration.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/AbstractRegistration.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/MutationBehaviour.java
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* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/Either.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/NoOpListenerRegistration.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/AbstractDelegator.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/NoOpObjectRegistration.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/CheckedValue.java
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* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/WritableObject.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/WritableObjects.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/WritableIdentifier.java
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Found in path(s):
* /concepts-11-0-4-sources-jar/module-info.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/AbstractIdentifiable.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/AbstractSimpleIdentifiable.java
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* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/PrettyTree.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/PrettyTreeAware.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/PrettyTreeIndent.java
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* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/ObjectExtension.java
* /concepts-11-0-4-sources-jar/org/opendaylight/yangtools/concepts/ExtensibleObject.java
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1.733 rfc8341 6.0.5

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* /rfc8341-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/RuleAccessOperationsBuilder.java
* /rfc8341-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/RuleModuleNameBuilder.java
* /rfc8341-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/rule/rule/type/NotificationNotificationNameBuilder.java
* /rfc8341-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/rule/list/rule/rule/type/ProtocolOperationRpcNameBuilder.java
*
 /rfc8341-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/nacm/RuleListGroupBuilder.java
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```
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* This version of this YANG module is part of RFC 8341; see the RFC itself for
* full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf-acm</b>
* <pre>
* module ietf-netconf-acm {
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-acm;
*   prefix nacm;
*   import ietf-yang-types {
*     prefix yang;
*   }
*   revision 2018-02-14 {
*   }
*   revision 2012-02-22 {
*   }
 *   extension default-deny-write {
*   }
*   extension default-deny-all {
*   }
*   typedef user-name-type {
*     type string {
*       length 1..max;
*     }
*   }
*   typedef matchall-string-type {
*     type string {
*       pattern \*;
*     }
*   }
*   typedef access-operations-type {
*     type bits {
*       bit create {
*       }
*       bit read {
*       }
*       bit update {
*       }
*       bit delete {
*       }
*       bit exec {
```

```
*       }
*     }
*   }
*   typedef group-name-type {
*     type string {
*       length 1..max;
*       pattern [^\*].*;
*     }
*   }
*   typedef action-type {
*     type enumeration {
*       enum permit {
*       }
*       enum deny {
*       }
*     }
*   }
*   typedef node-instance-identifier {
*     type yang:xpath1.0;
*   }
*   container nacm {
*     nacm:default-deny-all;
*     leaf enable-nacm {
*       type boolean;
*       default true;
*     }
*     leaf read-default {
*       type
 action-type;
*       default permit;
*     }
*     leaf write-default {
*       type action-type;
*       default deny;
*     }
*     leaf exec-default {
*       type action-type;
*       default permit;
*     }
*     leaf enable-external-groups {
*       type boolean;
*       default true;
*     }
*     leaf denied-operations {
*       type yang:zero-based-counter32;
*       config false;
*     }
*     leaf denied-data-writes {
```

```
*       type yang:zero-based-counter32;
*       config false;
*     }
*     leaf denied-notifications {
*       type yang:zero-based-counter32;
*       config false;
*     }
*     container groups {
*       list group {
*         key name;
*         leaf name {
*           type group-name-type;
*         }
*         leaf-list user-name {
*           type user-name-type;
*         }
*       }
*     }
*     list rule-list {
*       key name;
*       ordered-by user;
*       leaf name {
*         type string {
*
      length 1..max;
*         }
*       }
*       leaf-list group {
*         type union {
*           type matchall-string-type;
*           type group-name-type;
*         }
*       }
*       list rule {
*         key name;
*         ordered-by user;
*         leaf name {
*           type string {
*             length 1..max;
*           }
*         }
*         leaf module-name {
*           type union {
*             type matchall-string-type;
*             type string;
*           }
*           default *;
*         }
```

```
*        choice rule-type {
*          case protocol-operation {
*            leaf rpc-name {
*              type union {
*                type matchall-string-type;
*                type string;
*              }
*            }
*          }
*          case notification {
*            leaf notification-name {
*              type union {
*                type matchall-string-type;
*                type string;
*
      }
*            }
*          }
*          case data-node {
*            leaf path {
*              type node-instance-identifier;
*            }
*          }
*        }
*        leaf access-operations {
*          type union {
*            type matchall-string-type;
*            type access-operations-type;
*          }
*          default *;
*        }
*        leaf action {
*          type action-type;
*        }
*        leaf comment {
*          type string;
*        }
*      }
*    }
*  }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc8341-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/acm/rev180214/IetfNetconfAcmData.jav

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* /rfc8341-6-0-5-sources-jar/META-INF/maven/org.opendaylight.netconf.model/rfc8341/pom.xml

1.734 mdsal-binding-util 12.0.3

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* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedReadTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedReadWriteTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/CheckedFunction.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/Datastore.java
* /mdsal-binding-util-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/util/WriteTrackingReadWriteTransaction.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedReadWriteTransaction.java
*
 /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionChain.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/InterruptibleCheckedFunction.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionChainImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedReadTransaction.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionFactoryImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedTransaction.java
* /mdsal-binding-util-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/util/WriteTrackingTypedReadWriteTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedWriteTransactionImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TransactionAdapter.java
* /mdsal-binding-util-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/util/WriteTrackingTypedWriteTransactionImpl.java
*
 /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/WriteTrackingWriteTransaction.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/ManagedTransactionFactory.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/TypedWriteTransaction.java
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* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/ManagedNewTransactionRunner.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/ManagedNewTransactionRunnerImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/RetryingManagedNewTransactionRunnerImpl.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/CheckedConsumer.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/InterruptibleCheckedConsumer.java
* /mdsal-binding-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/util/RetryingManagedNewTransactionRunner.java
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1.735 rfc5277 6.0.5

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Found in path(s):
* /rfc5277-6-0-5-sources-jar/META-INF/maven/org.opendaylight.netconf.model/rfc5277/pom.xml

1.736 netty-event-executor-config 0.19.3

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* /netty-event-executor-config-0-19-3-sources-jar/org/opendaylight/controller/config/yang/netty/eventexecutor/AutoCloseableEventExecutor.java

1.737 rfc6536-model-api 11.0.4

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* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/NACMConstants.java
* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/NACMStatements.java
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* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyWriteStatement.java
* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyWriteEffectiveStatement.java
* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyAllStatement.java
* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyAllSchemaNode.java
* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyAllEffectiveStatement.java
*
 /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/package-info.java
* /rfc6536-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6536/model/api/DefaultDenyWriteSchemaNode.java

1.738 sal-remoterpc-connector 8.0.3

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jar/org/opendaylight/controller/remote/rpc/registry/gossip/GossipEnvelope.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/GossipStatus.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/LocalBucket.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/OpsRegistrar.java
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* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/RoutingTable.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/gossip/Gossiper.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketImpl.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/TerminationMonitor.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/RemoteOpsProvider.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/OpsInvoker.java
*
 /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/RemoteOpsProviderConfig.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketStoreAccess.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/messages/RpcResponse.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketData.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/gossip/Bucket.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/OpsListener.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/RpcRegistry.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/OpsManager.java
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jar/org/opendaylight/controller/remote/rpc/registry/gossip/BucketStoreActor.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/RemoteRpcImplementation.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/messages/ExecuteRpc.java
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* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/RemoteDOMRpcFuture.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/mbeans/RemoteRpcRegistryMXBeanImpl.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/RemoteDOMRpcException.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/RemoteOpsProviderFactory.java
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jar/org/opendaylight/controller/remote/rpc/registry/AbstractRoutingTable.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/AbstractRemoteImplementation.java
* /sal-remoterpc-connector-8-0-3-sources-
jar/org/opendaylight/controller/remote/rpc/registry/mbeans/AbstractRegistryMXBean.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/AbstractRemoteFuture.java
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jar/org/opendaylight/controller/remote/rpc/RemoteDOMActionFuture.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/messages/ExecuteAction.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/ActionRegistry.java

* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/mbeans/RemoteActionRegistryMXBean.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/mbeans/RemoteActionRegistryMXBeanImpl.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/messages/ActionResponse.java
*
/sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/messages/AbstractResponse.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/RemoteDOMActionException.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/messages/AbstractExecute.java
* /sal-remoterpc-connector-8-0-3-sources-jar/org/opendaylight/controller/remote/rpc/registry/ActionRoutingTable.java
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1.739 yang-parser-spi 11.0.4

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* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/package-info.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/source/package-info.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/source/ImplicitSubstatement.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/validation/package-info.java
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jar/org/opendaylight/yangtools/yang/parser/spi/meta/OnDemandSchemaTreeStorage.java
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* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/source/StatementWriter.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/validation/ValidationBundles.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ModelProcessingPhase.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/source/SourceException.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/source/QNameToStatementDefinition.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/InvalidSubstatementException.java
*
/yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementSupport.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementSupportBundle.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/MissingSubstatementException.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementFactory.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StatementDefinitions.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/SomeModifiersUnresolvedException.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/source/QNameToStatementDefinitionMap.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/meta/NamespaceNotAvailableException.java
*
/yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/source/StatementSourceReference.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/NamespaceBehaviour.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/SubstatementValidator.java
* /yang-parser-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/spi/source/StatementStreamSource.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ReactorException.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StmtContextUtils.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ModelActionBuilder.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StmtContext.java
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* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/NamespaceStmtCtx.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/BoundStmtCtx.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/EffectiveStmtCtx.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractEmptyStatementSupport.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractStatementSupport.java
*
 /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractInternedStatementSupport.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractUnqualifiedStatementSupport.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractQNameStatementSupport.java
* /yang-parser-spi-11-0-4-sources-jar/module-info.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractStringStatementSupport.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/BoundStmtCtxCompat.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractBooleanStatementSupport.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/ParserNamespace.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractSchemaTreeStatementSupport.java
*
 /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/StmtContextCompat.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/RootStmtContext.java
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jar/org/opendaylight/yangtools/yang/parser/spi/SchemaTreeNamespaceBehaviour.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/source/PrefixResolver.java
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* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/source/YangVersionLinkageException.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/UndeclaredStatementFactory.java
* /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/EffectiveStatementState.java
*
 /yang-parser-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/spi/meta/AbstractInternedStringStatementSupport.java

1.740 mdsal-binding-dom-codec 12.0.3

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jar/org/opendaylight/mdsal/binding/dom/codec/impl/ValueNodeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/EnumerationCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerSerializerRegistry.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/EncapsulatedValueCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/UnionTypeCodec.java
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 /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ListCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerSerializer.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/IdentifiableItemCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CommonDataObjectCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/MapCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/AugmentationCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/SchemaUnawareCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataObjectCodecContext.java
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jar/org/opendaylight/mdsal/binding/dom/codec/impl/BindingCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ChoiceCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecContextFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/BindingToNormalizedStreamWriter.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CaseCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ContainerLikeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerCodecContext.java

*
 /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CompositeValueCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/UnionValueOptionContext.java
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* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CommonDataObjectCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AugmentationCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecDataObjectAnalysis.java
*
 /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CaseCodecPrototype.java
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* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataObjectCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/ListCodecPrototype.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecItemFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/StructuralContainerCodecPrototype.java
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* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/package-info.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/DefaultBindingCodecTreeFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/StructuralContainerCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/di/DefaultBindingDOMCodecServices.java
*
 /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/ValueCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractValueCodec.java
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* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/IdentityCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/InstanceIdentifierCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/NotificationCodecContext.java
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/mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/NonCachingCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/CachingNormalizedNodeCodec.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/NormalizedNodeWriterWithAddChild.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataObjectNormalizedNodeCache.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractBindingNormalizedNodeCacheHolder.java
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* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AbstractBindingNormalizedNodeCache.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/ByteBuddyUtils.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/TypeObjectNormalizedNodeCache.java
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 /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/ClassGeneratorBridge.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerStreamer.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/LeafNodeCodecContext.java
* /mdsal-binding-dom-codec-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/impl/AnyxmlCodecContext.java
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* /mdsal-binding-dom-codec-12-0-3-sources-

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* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecDataObjectGenerator.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/DataContainerStreamerGenerator.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/CodecDataObject.java
*
/mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/ForeignOpaqueData.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/AugmentableCodecDataObject.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LeafSetNodeCodecContext.java
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* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/SimpleBindingDOMCodecFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingList.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/SimpleBindingCodecTreeFactory.java
* /mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingMapLookupState.java
*
/mdsal-binding-dom-codec-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/codec/impl/LazyBindingMap.java

1.741 mdsal-binding-model-api 12.0.3

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* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/GeneratedPropertyBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/DefaultType.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/ParameterizedType.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/AnnotationType.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/AccessModifier.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/package-info.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/Type.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/GeneratedTransferObject.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/ConstantBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/Restrictions.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/TypeMember.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/Constant.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/GeneratedProperty.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/DocumentedType.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/GeneratedTOBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/ConcreteType.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/GeneratedType.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/CodeGenerator.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/Enumeration.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/GeneratedTypeBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/MethodSignature.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/EnumBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/package-info.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/AnnotationTypeBuilder.java
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* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/pkg-info.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/TypeComment.java
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* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/type/builder/TypeMemberBuilder.java
* /mdsal-binding-model-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/api/WildcardType.java

1.742 restconf-common 6.0.5

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* /restconf-common-6-0-5-sources-jar/org/opendaylight/restconf/common/patch/PatchEntity.java
* /restconf-common-6-0-5-sources-jar/org/opendaylight/restconf/common/patch/PatchEditOperation.java
* /restconf-common-6-0-5-sources-jar/org/opendaylight/restconf/common/patch/PatchStatusContext.java
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1.743 rfc7952-parser-support 11.0.4

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1.744 restconf-api 6.0.5

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* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/LeafNodesOnlyParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/ContentParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/Utf8Buffer.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/AbstractReplayParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/PointParam.java
*
 /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/PrettyPrintParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/ApiPath.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/DepthParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/FilterParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/SkipNotificationDataParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/RestconfQueryParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/StartTimeParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/StopTimeParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/WithDefaultsParam.java
* /restconf-api-6-0-5-sources-jar/org/opendaylight/restconf/api/query/FieldsParam.java
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1.745 rfc6241-model-api 11.0.4

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1.746 rfc7952-model-api 11.0.4

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* /rfc7952-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc7952/model/api/package-info.java
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1.747 openconfig-parser-support 11.0.4

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* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigHashedValueStatementImpl.java
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* /openconfig-parser-support-11-0-4-sources-jar/META-INF/maven/org.opendaylight.yangtools/openconfig-parser-support/pom.xml
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* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/AbstractHashedValueStatementSupport.java
* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/EncryptedValueStatementSupport.java
* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/HashedValueStatementSupport.java
* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigVersionSupport.java
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* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigVersionEffectiveStatementImpl.java
* /openconfig-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/openconfig/parser/OpenConfigVersionStatementImpl.java
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1.748 yang-model-ri 11.0.4

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jar/org/opendaylight/yangtools/yang/model/ri/type/RequireInstanceRestrictedTypeBuilder.java
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* /yang-model-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/ri/type/RangeRestrictedTypeBuilderWithBase.java
* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/DerivedUint64Type.java
* /yang-model-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/ri/type/AbstractLengthRestrictedDerivedType.java
* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/RestrictedInt64Type.java
* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/RestrictedUint16Type.java
* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/RestrictedUint8Type.java
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 /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/RestrictedUint32Type.java
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* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/DerivedUint16Type.java
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* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/DerivedUint32Type.java
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* /yang-model-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/EmptyChoiceStatement.java
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* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/eff/RegularBitEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/ri/type/InvalidEnumDefinitionException.java
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/yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/BaseInt8Type.java
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* /yang-model-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/RegularYinElementStatement.java
* /yang-model-ri-11-0-4-sources-
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* /yang-model-ri-11-0-4-sources-
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* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/BitImpl.java
* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/EnumPairBuilder.java
* /yang-model-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/eff/EmptyConfigEffectiveStatement.java
* /yang-model-ri-11-0-4-sources-
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*
/yang-model-ri-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/ri/stmt/impl/decl/EmptyConfigStatement.java
* /yang-model-ri-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/ri/type/BitBuilder.java

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* /aaa-password-service-impl-0-18-3-sources-jar/META-INF/maven/org.opendaylight.aaa/aaa-password-service-

impl/pom.xml

1.750 aaa-encrypt-service-impl 0.18.3

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Found in path(s):
* /aaa-encrypt-service-impl-0-18-3-sources-jar/org/opendaylight/aaa/encrypt/impl/OSGiEncryptionServiceConfigurator.java
* /aaa-encrypt-service-impl-0-18-3-sources-jar/org/opendaylight/aaa/encrypt/impl/EncryptServiceConfigImpl.java
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Found in path(s):
* /aaa-encrypt-service-impl-0-18-3-sources-jar/META-INF/maven/org.opendaylight.aaa/aaa-encrypt-service-impl/pom.xml
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Found in path(s):
* /aaa-encrypt-service-impl-0-18-3-sources-jar/org/opendaylight/aaa/encrypt/impl/AAAEncryptionServiceImpl.java

1.751 sal-cluster-admin-impl 8.0.3

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Found in path(s):
* /sal-cluster-admin-impl-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/admin/ShardIdentifier.java
* /sal-cluster-admin-impl-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/admin/ClusterAdminRpcService.java
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Found in path(s):
* /sal-cluster-admin-impl-8-0-3-sources-jar/org/opendaylight/controller/cluster/datastore/admin/OSGiClusterAdmin.java

1.752 mdsal-binding-loader 12.0.3

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Found in path(s):
* /mdsal-binding-loader-12-0-3-sources-jar/org/opendaylight/mdsal/binding/loader/BindingClassLoader.java

* /mdsal-binding-loader-12-0-3-sources-jar/org/opendaylight/mdsal/binding/loader/LeafBindingClassLoader.java
* /mdsal-binding-loader-12-0-3-sources-jar/org/opendaylight/mdsal/binding/loader/RootBindingClassLoader.java
* /mdsal-binding-loader-12-0-3-sources-jar/org/opendaylight/mdsal/binding/loader/package-info.java
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Found in path(s):
* /mdsal-binding-loader-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-binding-loader/pom.xml

1.753 mdsal-binding-spec-util 12.0.3

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* /mdsal-binding-spec-util-12-0-3-sources-jar/module-info.java
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Found in path(s):
* /mdsal-binding-spec-util-12-0-3-sources-jar/org/opendaylight/mdsal/binding/spec/reflect/BindingReflections.java
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Found in path(s):
* /mdsal-binding-spec-util-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/spec/reflect/StringValueObjectFactory.java
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Found in path(s):
* /mdsal-binding-spec-util-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-binding-spec-
util/pom.xml

1.754 mdsal-dom-schema-osgi 12.0.3

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Found in path(s):
* /mdsal-dom-schema-osgi-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-dom-schema-osgi/pom.xml
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Found in path(s):
* /mdsal-dom-schema-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/YangModuleInfoRegistry.java
* /mdsal-dom-schema-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/YangModuleInfoScanner.java
* /mdsal-dom-schema-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/OSGiDOMSchemaService.java
* /mdsal-dom-schema-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/schema/osgi/impl/RegularYangModuleInfoRegistry.java
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Found in path(s):
* /mdsal-dom-schema-osgi-12-0-3-sources-

jar/org/opendaylight/mdsal/dom/schema/osgi/impl/OSGiModuleInfoSnapshotImpl.java
* /mdsal-dom-schema-osgi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/schema/osgi/impl/KarafYangModuleInfoRegistry.java
* /mdsal-dom-schema-osgi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/schema/osgi/impl/EffectiveModelContextImpl.java
* /mdsal-dom-schema-osgi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/schema/osgi/impl/OSGiModelRuntime.java
* /mdsal-dom-schema-osgi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/schema/osgi/impl/KarafFeaturesSupport.java
* /mdsal-dom-schema-osgi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/schema/osgi/ModelGenerationAware.java
*
/mdsal-dom-schema-osgi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/schema/osgi/OSGiModuleInfoSnapshot.java

1.755 rfc6243 6.0.5

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* /rfc6243-6-0-5-sources-jar/META-INF/maven/org.opendaylight.netconf.model/rfc6243/pom.xml
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/**
* This module defines an extension to the NETCONF protocol that allows the
* client to control how default values are handled by the server in particular
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* in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents
* (http://trustee.ietf.org/license-info). This version of this YANG module is
* of RFC 6243; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-netconf-with-defaults
* <pre>
* module ietf-netconf-with-defaults {

```
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults;
 *   prefix ncwd;
*   import ietf-netconf {
*     prefix nc;
*   }
*   revision 2011-06-01 {
*   }
*   typedef with-defaults-mode {
*     type enumeration {
*       enum report-all {
*       }
*       enum report-all-tagged {
*       }
*       enum trim {
*       }
*       enum explicit {
*       }
*     }
*   }
*   grouping with-defaults-parameters {
*     leaf with-defaults {
*       type with-defaults-mode;
*     }
*   }
*   augment /nc:get-config/nc:input {
*     uses with-defaults-parameters;
*   }
*   augment /nc:get/nc:input {
*     uses with-defaults-parameters;
*   }
*   augment /nc:copy-config/nc:input {
*     uses with-defaults-parameters;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6243-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/with/defaults/rev110601/IetfNetconfWithDefaultsData.java
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Found in path(s):
* /rfc6243-6-0-5-sources-jar/META-INF/yang/ietf-netconf-with-defaults@2011-06-01.yang

1.756 web-osgi-impl 0.18.3

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Found in path(s):
* /web-osgi-impl-0-18-3-sources-jar/org/opendaylight/aaa/web/osgi/WhiteboardResource.java
* /web-osgi-impl-0-18-3-sources-jar/org/opendaylight/aaa/web/osgi/WhiteboardServletContextHelper.java
* /web-osgi-impl-0-18-3-sources-jar/org/opendaylight/aaa/web/osgi/WhiteboardWebServer.java
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Found in path(s):
* /web-osgi-impl-0-18-3-sources-jar/META-INF/maven/org.opendaylight.aaa.web/web-osgi-impl/pom.xml

1.757 yang-parser-rfc7950 11.0.4

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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/BuiltinTypeStatement.java
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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/if_feature/IfFeaturePredicateParser.java
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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefEnumSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefIdentityRefSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/package-info.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefDecimal64Specification.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefBitsSpecification.java
*
 /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefInstanceIdentifierSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefLeafrefSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/extension/UnrecognizedEffectiveStatement.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RefUnionSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/AbstractTypeSupport.java

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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/path/UnparsedPathExpression.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/path/ParsedPathExpression.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/path/PathExpressionParser.java
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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/deviate/DeviateStatementRFC7950Support.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/TypeStatementRFC7950Support.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/pattern/RegexUtils.java

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* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/SourceExceptionParser.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/StatementContextVisitor.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/AbstractParserErrorListener.java
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Found in path(s):
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/package-info.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/StatusStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/NamespaceStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/ReferenceStatementSupport.java

* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/BitsSpecificationSupport.java
*
/yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/namespace/package-info.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/reactor/package-info.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/ErrorAppTagStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/RevisionDateStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/MandatoryStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/pattern/PatternStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/augment/AbstractAugmentStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/CaseStatementSupport.java
*
/yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/IdentityRefSpecificationSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/deviate/DeviateStatementRFC6020Support.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/FeatureStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/EnumStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/MinElementsStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/WhenStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/DeviationStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/RequireInstanceStatementSupport.java
*
/yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/LeafListStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/TypedefStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/AnydataStatementSupport.java
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* /yang-parser-rfc7950-11-0-4-sources-
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* /yang-parser-rfc7950-11-0-4-sources-
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* /yang-parser-rfc7950-11-0-4-sources-
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* /yang-parser-rfc7950-11-0-4-sources-
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* /yang-parser-rfc7950-11-0-4-sources-
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/RevisionStatementSupport.java
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/augment/AugmentStatementRFC6020Support.java
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/uses/UsesStatementSupport.java
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/ConfigStatementSupport.java

* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/AbstractTypeStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/notification/AbstractNotificationStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/LeafrefSpecificationSupport.java
*
 /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/Decimal64SpecificationSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/InstanceIdentifierSpecificationSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/AnyxmlStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/extension/UnrecognizedStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/ContactStatementSupport.java
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 /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/FractionDigitsStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/ActionStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/OutputStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/TypeStatementRFC6020Support.java
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* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/XPathSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/namespace/ModuleQNameToPrefix.java

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jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/AbstractSourceToken.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/if_feature/IfFeatureStatementRFC6020Support.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/Token12122.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/CompactTokenFactory.java
*
 /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/uses/FullCopiedUsesEffectiveStatement.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/TypeEffectiveStatementImpl.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/AbstractImplicitStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/Token12144.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/reactor/ServiceLoaderState.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/meta/AbstractOperationContainerStatementSupport.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/RegularInstanceIdentifierSpecification.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/EmptyIdentifierSpecification.java
*
 /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/uses/RegularLocalUsesEffectiveStatement.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/import_/ImportedVersionNamespace.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/CompactYangStatementLexer.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/ExplicitTextToken.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/if_feature/IfFeatureStatementRFC7950Support.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/Token44444.java
* /yang-parser-rfc7950-11-0-4-sources-

jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/uses/SourceGroupingNamespace.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/uses/SimpleCopiedUsesEffectiveStatement.java
*
/yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/namespace/YangNamespaceContextNamespace.java
* /yang-parser-rfc7950-11-0-4-sources-jar/module-info.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/BaseTypeNamespace.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/augment/AugmentInferenceAction.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/module/QNameModuleNamespace.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/TextToIRTransformer.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/list/ConfigListWarningNamespace.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/antlr/IRSupport.java
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/YinTextToDomTransformer.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/augment/AugmentStatementRFC7950Support.java
* /yang-parser-rfc7950-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/rfc7950/reactor/CustomCrossSourceStatementReactorBuilder.java
* /yang-parser-rfc7950-11-0-4-sources-
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/namespace/StmtNamespaceContext.java
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jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/ArgumentContextUtils.java

* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/EffectiveStmtUtils.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/extension/ModelDefinedStatementDefinition.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/repo/YinStatementStreamSource.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/module/ModuleEffectiveStatementImpl.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/AbstractEffectiveModule.java
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* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/type/Decimal64SpecificationImpl.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/reactor/YangValidationBundles.java
* /yang-parser-rfc7950-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/rfc7950/stmt/submodule/SubmoduleEffectiveStatementImpl.java

1.758 yang-data-api 11.0.4

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* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/builder/CollectionNodeBuilder.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/builder/NormalizedNodeBuilder.java
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*/

Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/package-info.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/ForwardingNormalizedNodeStreamWriter.java
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Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/EmptyMountPointContext.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MountPointContextFactory.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/DatastoreIdentifier.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/DSIv1.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MountPointChild.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MountPointContext.java
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Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/DuplicateFinder.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/PathArgumentList.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/FixedYangInstanceIdentifier.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/StackedYangInstanceIdentifier.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/LoggingNormalizedNodeStreamWriter.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/YangInstanceIdentifierBuilder.java
*
 /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/StackedPathArguments.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/AbstractIndentingNormalizedNodeStreamWriter.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/StackedReversePathArguments.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/DuplicateEntry.java
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Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/YangInstanceIdentifierWriter.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/FormattingNormalizedNodeStreamWriter.java

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Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/ReusableStreamReceiver.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedNodeStreamWriterMetadataDecorator.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/AbstractIllegalArgumentCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/MountPointNormalizedNodeWriter.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedAnydata.java
*
 /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/AnydataNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/NIv1.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/NIPv2.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/YIDv1.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/ImmutableNormalizedAnydata.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/ForeignDataNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/NIVv1.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/IllegalArgumentCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/AnydataNormalizationException.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedMetadata.java
*
 /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/AnyxmlNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MetadataNormalizedAnydata.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/YangInvalidValueException.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizableAnydata.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedMetadataWriter.java
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Found in path(s):
* /yang-data-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizationResult.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedTuple.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/DataContainer.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MountPointException.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedYangData.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedContainer.java
*
/yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/DistinctContainer.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedMountpoints.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedMountPoint.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedData.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/OrderedContainer.java
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Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/ValueNode.java
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* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/BinaryCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedNodes.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/ChoiceNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/EmptyCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/IdentityrefCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Int32Codec.java
*

/yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MixinNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Int16Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/UnkeyedListNode.java
* /yang-data-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedNodeWriter.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Int8Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/DataContainerChild.java
* /yang-data-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/api/schema/stream/NormalizedNodeStreamWriter.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/BooleanCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/SystemLeafSetNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/LeafSetNode.java
*
/yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/OrderedNodeContainer.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint64Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/LeafrefCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/tree/StoreTreeNodes.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/LeafNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint32Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/ContainerNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedNode.java
* /yang-data-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/api/schema/DOMSourceAnyxmlNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/UserLeafSetNode.java
*
/yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/UnionCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint8Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MapNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/EnumCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/tree/StoreTreeNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/BitsCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/InstanceIdentifierCodec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Uint16Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/DecimalCodec.java
*
/yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/Int64Codec.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/codec/StringCodec.java
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Found in path(s):
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/NormalizedNodeContainer.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/LeafSetEntryNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/MapEntryNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/YangInstanceIdentifier.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/UserMapNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/SystemMapNode.java
*
 /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/DataContainerNode.java
* /yang-data-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/api/schema/UnkeyedListEntryNode.java

1.759 rfc6991-ietf-yang-types 12.0.3

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* /rfc6991-ietf-yang-types-12-0-3-sources-jar/META-INF/yang/ietf-yang-types@2013-07-15.yang
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Found in path(s):
* /rfc6991-ietf-yang-types-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/types/rev130715/IetfYangUtil.java

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```
/**
* This module contains a collection of generally useful derived YANG data types.
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* of RFC 6991; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-yang-types</b>
* <pre>
* module ietf-yang-types {
*   namespace urn:ietf:params:xml:ns:yang:ietf-yang-types;
*   prefix yang;
*   revision 2013-07-15 {
*   }
*   revision 2010-09-24 {
*   }
*   typedef counter32 {
*
  type uint32;
*   }
*   typedef zero-based-counter32 {
*     type yang:counter32;
*     default 0;
*   }
*   typedef counter64 {
*     type uint64;
*   }
*   typedef zero-based-counter64 {
*     type yang:counter64;
*     default 0;
*   }
*   typedef gauge32 {
*     type uint32;
*   }
*   typedef gauge64 {
*     type uint64;
*   }
*   typedef object-identifier {
*     type string {
*       pattern (([0-1](\.[1-3]?[0-9]))|(2\.(0|([1-9]\d*))))(\.(0|([1-9]\d*)))*;
*     }
*   }
```

```
*   typedef object-identifier-128 {
*     type object-identifier {
*       pattern "\d*(\.\d*){1,127}";
*     }
*   }
*   typedef yang-identifier {
*     type string {
*       length 1..max;
*       pattern [a-zA-Z_][a-zA-Z0-9\-_.]*;
*       pattern .|..|[^xX].*|.[^mM].*|..[^lL].*;
*     }
*   }
*   typedef date-and-time {
*     type string {
*       pattern "\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z|[\+\-]\d{2}:\d{2})";
*     }
*   }
*   typedef timeticks {
*     type
 uint32;
*   }
*   typedef timestamp {
*     type yang:timeticks;
*   }
*   typedef phys-address {
*     type string {
*       pattern "([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?";
*     }
*   }
*   typedef mac-address {
*     type string {
*       pattern "[0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}";
*     }
*   }
*   typedef xpath1.0 {
*     type string;
*   }
*   typedef hex-string {
*     type string {
*       pattern "([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?";
*     }
*   }
*   typedef uuid {
*     type string {
*       pattern "[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}";
*     }
*   }
*   typedef dotted-quad {
```

```
*     type string {
*       pattern "(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])";
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6991-ietf-yang-types-12-0-3-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/yang/types/rev130715/IetfYangTypesData.java
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-->
```

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* /rfc6991-ietf-yang-types-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal.binding.model.ietf/rfc6991-ietf-yang-types/pom.xml

1.760 rfc8526 6.0.5

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```
/**
* This YANG module defines a set of NETCONF operations to support the Network
* Management Datastore Architecture (NMDA). The key words 'MUST', 'MUST NOT',
* 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT', 'RECOMMENDED', 'NOT
* RECOMMENDED', 'MAY', and 'OPTIONAL' in this document are to be interpreted as
```

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* module is part of RFC 8526;
 see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module ietf-netconf-nmda
* <pre>
* module ietf-netconf-nmda {
*   yang-version 1.1;
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-nmda;
*   prefix ncds;
*   import ietf-yang-types {
*   prefix yang;
*   }
*   import ietf-inet-types {
*   prefix inet;
*   }
*   import ietf-datastores {
*   prefix ds;
*   }
*   import ietf-origin {
*   prefix or;
*   }
*   import ietf-netconf {
*   prefix nc;
*   }
*   import ietf-netconf-with-defaults {
*   prefix ncwd;
*   }
*   revision 2019-01-07 {
*   }
*   feature origin {
*   }
*   feature with-defaults {
*   }
*   rpc get-data {
*   input input {
*   leaf datastore {
*   type ds:datastore-ref;
*   }
*   choice filter-spec {
*   anydata subtree-filter {

```
*        }
*        leaf xpath-filter {
*          if-feature nc:xpath;
*
         type yang:xpath1.0;
*        }
*      }
*      leaf config-filter {
*        type boolean;
*      }
*      choice origin-filters {
*        when "derived-from-or-self(datastore, \"ds:operational\")";
*        if-feature origin;
*        leaf-list origin-filter {
*          type or:origin-ref;
*        }
*        leaf-list negated-origin-filter {
*          type or:origin-ref;
*        }
*      }
*      leaf max-depth {
*        type union {
*          type uint16 {
*            range 1..65535;
*          }
*          type enumeration {
*            enum unbounded {
*            }
*          }
*        }
*        default unbounded;
*      }
*      leaf with-origin {
*        when "derived-from-or-self(../datastore, \"ds:operational\")";
*        if-feature origin;
*        type empty;
*      }
*      uses ncwd:with-defaults-parameters {
*        if-feature with-defaults;
*      }
*    }
*    output output
 {
*      anydata data {
*      }
*    }
*  }
*  rpc edit-data {
```

```
*     input input {
*       leaf datastore {
*         type ds:datastore-ref;
*       }
*       leaf default-operation {
*         type enumeration {
*           enum merge {
*           }
*           enum replace {
*           }
*           enum none {
*           }
*         }
*         default merge;
*       }
*       choice edit-content {
*         anydata config {
*         }
*         leaf url {
*           if-feature nc:url;
*           type inet:uri;
*         }
*       }
*     }
*   }
*   augment /nc:lock/nc:input/nc:target/nc:config-target {
*     leaf datastore {
*       type ds:datastore-ref;
*     }
*   }
*   augment /nc:unlock/nc:input/nc:target/nc:config-target {
*     leaf datastore {
*       type ds:datastore-ref;
*     }
*   }
*   augment /nc:validate/nc:input/nc:source/nc:config-source {
*     leaf datastore {
*       type ds:datastore-ref;
*     }
*   }
 * }
* </pre>
*
*/
```

Found in path(s):
* /rfc8526-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/nmda/rev190107/IetfNetconfNmdaData.j

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* /rfc8526-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/nmda/rev190107/GetDataInputMaxDepthBuilder.java

1.761 mdsal-dom-broker 12.0.3

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* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMForwardedReadWriteTransaction.java
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* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMActionRoutingTable.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMRoutingTable.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMActionRoutingTableEntry.java
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* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/OSGiDOMRpcProviderService.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/OSGiDOMActionService.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMRpcRouterServices.java
* /mdsal-dom-broker-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/broker/OSGiDOMActionProviderService.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/OSGiDOMRpcService.java
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* /mdsal-dom-broker-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/broker/RoutedDOMRpcRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMRpcRouter.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMRpcRoutingTable.java
* /mdsal-dom-broker-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/broker/AbstractDOMRpcRoutingTableEntry.java
* /mdsal-dom-broker-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/broker/UnknownDOMRpcRoutingTableEntry.java

* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/GlobalDOMRpcRoutingTableEntry.java
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* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/OperationInvocation.java
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* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMForwardedTransactionFactory.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMMountPointServiceImpl.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/TransactionCommitFailedExceptionMapper.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMNotificationRouterEvent.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMForwardedWriteTransaction.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMDataBroker.java
*

/mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMForwardedReadOnlyTransaction.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMNotificationRouter.java
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* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/CommitCoordinationTask.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/SerializedDOMDataBroker.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/DOMDataBrokerTransactionChainImpl.java
* /mdsal-dom-broker-12-0-3-sources-jar/org/opendaylight/mdsal/dom/broker/AbstractDOMForwardedTransaction.java

1.762 mdsal-binding-dom-codec-osgi 12.0.3

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* /mdsal-binding-dom-codec-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/osgi/impl/GlobalBindingDOMCodecServices.java
* /mdsal-binding-dom-codec-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/osgi/impl/OSGiBindingDOMCodec.java
* /mdsal-binding-dom-codec-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/osgi/impl/OSGiBindingDOMCodecServicesImpl.java
* /mdsal-binding-dom-codec-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/osgi/OSGiBindingDOMCodecServices.java
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1.763 mdsal-common-api 12.0.3

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* /mdsal-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/common/api/ThreePhaseCommitStep.java
* /mdsal-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/common/api/PostPreCommitStep.java
* /mdsal-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/common/api/DataStoreUnavailableException.java
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* /mdsal-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/common/api/EmptyCommitInfo.java
* /mdsal-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/common/api/CommitInfo.java
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* /mdsal-common-api-12-0-3-sources-
jar/org/opendaylight/mdsal/common/api/TransactionCommitFailedException.java
* /mdsal-common-api-12-0-3-sources-jar/org/opendaylight/mdsal/common/api/DataValidationFailedException.java
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* /mdsal-common-api-12-0-3-sources-
jar/org/opendaylight/mdsal/common/api/TransactionDatastoreMismatchException.java

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1.764 yang-data-tree-spi 11.0.4

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* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/DeleteLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractRecursiveCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractWriteCandidate.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/DataTreeCandidateNodes.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/DefaultDataTreeCandidate.java
*
 /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveUnmodifiedCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/ReplaceLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/NormalizedNodeDataTreeCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/AbstractAvailableLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveDeleteCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveWriteCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/WriteLeafCandidateNode.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/RecursiveReplaceCandidateNode.java
*

/yang-data-tree-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/spi/DataTreeCandidates.java
* /yang-data-tree-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/spi/UnmodifiedLeafCandidateNode.java
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1.765 yang-model-spi 11.0.4

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* /yang-model-spi-11-0-4-sources-jar/module-info.java
* /yang-model-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/spi/DefaultSchemaTreeInference.java
* /yang-model-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/spi/meta/ForwardingDeclaredStatement.java
* /yang-model-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractRefStatement.java
* /yang-model-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/spi/meta/SingletonNamespace.java
* /yang-model-spi-11-0-4-sources-jar/org/opendaylight/yangtools/yang/model/spi/AbstractEffectiveStatementInference.java
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jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractEffectiveUnknownSchmemaNode.java
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jar/org/opendaylight/yangtools/yang/model/spi/meta/SubstatementIndexingException.java
* /yang-model-spi-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractDeclaredEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/spi/meta/AbstractUndeclaredEffectiveStatement.java
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jar/org/opendaylight/yangtools/yang/model/spi/meta/EffectiveStatementMixins.java
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1.766 karaf-branding 13.0.7

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1.767 yang-data-codec-xml 11.0.4

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1.768 yang-data-codec-gson 11.0.4

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* /yang-data-codec-gson-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/codec/gson/UnionJSONCodec.java

1.769 mdsal-binding-runtime-osgi 12.0.3

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* /mdsal-binding-runtime-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/osgi/impl/GlobalBindingRuntimeContext.java
* /mdsal-binding-runtime-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/osgi/impl/OSGiBindingRuntimeContextImpl.java
* /mdsal-binding-runtime-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/osgi/impl/OSGiBindingRuntime.java
* /mdsal-binding-runtime-osgi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/runtime/osgi/OSGiBindingRuntimeContext.java
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* /mdsal-binding-runtime-osgi-12-0-3-sources-jar/META-INF/maven/org.opendaylight.mdsal/mdsal-binding-runtime-osgi/pom.xml

1.770 yang-parser-impl 11.0.4

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* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/impl/DefaultReactors.java
* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/impl/package-info.java
* /yang-parser-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/impl/DefaultYangParserFactory.java
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* /yang-parser-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/repo/YangTextSchemaContextResolver.java
* /yang-parser-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/repo/AbstractYangTextSchemaSourceRegistration.java
* /yang-parser-impl-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/parser/repo/YangTextSchemaSourceRegistration.java
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* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/repo/AssembleSources.java

* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/repo/DependencyResolver.java
* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/repo/SourceIdMismatchDetector.java
* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/repo/SharedSchemaRepository.java
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* /yang-parser-impl-11-0-4-sources-jar/org/opendaylight/yangtools/yang/parser/repo/RevisionDependencyResolver.java

1.771 mdsal-binding-model-ri 12.0.3

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* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/Types.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AnnotationTypeBuilderImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/CodegenGeneratedTOBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/ConstantImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/GeneratedPropertyImpl.java
*
 /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/GeneratedPropertyBuilderImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractTypeMember.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/MethodParameterImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/MethodSignatureImpl.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/CodegenGeneratedTypeBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractGeneratedType.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractGeneratedTypeBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/BaseYangTypes.java
*
 /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractGeneratedTOBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/BindingTypes.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractTypeMemberBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/CodegenEnumerationBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/MethodSignatureBuilderImpl.java
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* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/AbstractEnumerationBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/RuntimeGeneratedTypeBuilder.java
* /mdsal-binding-model-ri-12-0-3-sources-jar/org/opendaylight/mdsal/binding/model/ri/generated/type/builder/RuntimeGeneratedTOBuilder.java

1.772 rfc6470 6.0.5

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/**
* This module defines a YANG data model for use with the NETCONF protocol that

```
* allows the NETCONF client to receive common NETCONF base event notifications.
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* of RFC 6470; see the RFC itself for full legal notices.
*
* <p>
* This class represents the following YANG schema fragment defined in module <b>ietf-netconf-notifications</b>
* <pre>
* module ietf-netconf-notifications {
*   namespace urn:ietf:params:xml:ns:yang:ietf-netconf-notifications;
 *   prefix ncn;
*   import ietf-inet-types {
*     prefix inet;
*     revision-date 2013-07-15;
*   }
*   import ietf-netconf {
*     prefix nc;
*     revision-date 2011-06-01;
*   }
*   revision 2012-02-06 {
*   }
*   grouping common-session-parms {
*     leaf username {
*       type string;
*     }
*     leaf session-id {
*       type nc:session-id-or-zero-type;
*     }
*     leaf source-host {
*       type inet:ip-address;
*     }
*   }
*   grouping changed-by-parms {
*     container changed-by {
*       choice server-or-user {
*         leaf server {
*           type empty;
*         }
*         case by-user {
*           uses common-session-parms;
*         }
*       }
*     }
*   }
```

```
*   notification netconf-config-change {
*     uses changed-by-parms;
*     leaf datastore {
*       type enumeration {
*         enum running {
*         }
*         enum startup {
*         }
*       }
*       default running;
*     }
*     list edit {
 *       leaf target {
*         type instance-identifier;
*       }
*       leaf operation {
*         type nc:edit-operation-type;
*       }
*     }
*   }
*   notification netconf-capability-change {
*     uses changed-by-parms;
*     leaf-list added-capability {
*       type inet:uri;
*     }
*     leaf-list deleted-capability {
*       type inet:uri;
*     }
*     leaf-list modified-capability {
*       type inet:uri;
*     }
*   }
*   notification netconf-session-start {
*     uses common-session-parms;
*   }
*   notification netconf-session-end {
*     uses common-session-parms;
*     leaf killed-by {
*       when "../termination-reason = 'killed'";
*       type nc:session-id-type;
*     }
*     leaf termination-reason {
*       type enumeration {
*         enum closed {
*         }
*         enum killed {
*         }
*         enum dropped {
```

```
*         }
*         enum timeout {
*         }
*         enum bad-hello {
*         }
*
  enum other {
*         }
*       }
*     }
*   }
*   notification netconf-confirmed-commit {
*     uses common-session-parms {
*       when "confirm-event != 'timeout'";
*     }
*     leaf confirm-event {
*       type enumeration {
*         enum start {
*         }
*         enum cancel {
*         }
*         enum timeout {
*         }
*         enum extend {
*         }
*         enum complete {
*         }
*       }
*     }
*     leaf timeout {
*       when "../confirm-event = 'start' or ../confirm-event = 'extend'";
*       type uint32;
*       units seconds;
*     }
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /rfc6470-6-0-5-sources-jar/org/opendaylight/yang/gen/v1/urn/ietf/params/xml/ns/yang/ietf/netconf/notifications/rev120206/IetfNetconfNotificationsData.java

1.773 yang-data-transform 11.0.4

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* /yang-data-transform-11-0-4-sources-jar/org/opendaylight/yangtools/transform/NormalizedNodeTransformations.java
* /yang-data-transform-11-0-4-sources-jar/org/opendaylight/yangtools/transform/QNameReplacementFunction.java
* /yang-data-transform-11-0-4-sources-jar/org/opendaylight/yangtools/transform/QNameTransformingStreamWriter.java
* /yang-data-transform-11-0-4-sources-jar/org/opendaylight/yangtools/transform/QNameModuleReplacementFunction.java

1.774 repackaged-shiro 0.18.3

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The implementation for org.apache.shiro.util.SoftHashMap is based
on initial ideas from Dr. Heinz Kabutz's publicly posted version
available at http://www.javaspecialists.eu/archive/Issue015.html,
with continued modifications.

Certain parts (StringUtils, IpAddressMatcher, etc.) of the source
code for this product was copied for simplicity and to reduce
dependencies from the source code developed by the Spring Framework
Project (http://www.springframework.org).

1.775 sal-akka-segmented-journal 8.0.3

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jar/org/opendaylight/controller/akka/segjournal/SegmentedFileJournal.java
* /sal-akka-segmented-journal-8-0-3-sources-
jar/org/opendaylight/controller/akka/segjournal/SegmentedJournalActor.java
* /sal-akka-segmented-journal-8-0-3-sources-
jar/org/opendaylight/controller/akka/segjournal/DataJournalEntrySerializer.java
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1.776 rfc8639-model-api 11.0.4

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* /rfc8639-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8639/model/api/SubscribedNotificationsConstants.java
* /rfc8639-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8639/model/api/SubscriptionStateNotificationStatement.java
* /rfc8639-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8639/model/api/SubscribedNotificationsStatements.java
* /rfc8639-model-api-11-0-4-sources-jar/org/opendaylight/yangtools/rfc8639/model/api/SubscriptionStateNotificationEffectiveStatement.java
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1.777 netconf-dom-api 6.0.5

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* /netconf-dom-api-6-0-5-sources-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMFieldsReadOperations.java
* /netconf-dom-api-6-0-5-sources-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMFieldsTransactionChain.java
* /netconf-dom-api-6-0-5-sources-jar/org/opendaylight/netconf/dom/api/tx/NetconfDOMDataBrokerFieldsExtension.java
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1.778 yang-xpath-api 11.0.4

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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangLocationPath.java
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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangVariableReferenceExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathParser.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangConstantExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangNumberExpr.java
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 /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathParserFactory.java
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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangNaryExpr.java
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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangLiteralExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangPredicateAware.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangBooleanConstantExpr.java

* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangFunctionCallExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathExpression.java
*
/yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangPathExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangBinaryExpr.java
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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangFilterExpr.java
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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/ResolvedQNameReferent.java

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* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/DoubleXPathMathSupport.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/DoubleNumberExpr.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathMathMode.java
* /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/YangXPathMathSupport.java
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 /yang-xpath-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/xpath/api/AbstractYangXPathMathSupport.java
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1.779 yang-common 11.0.4

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* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/Uint64.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/Empty.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/Uint32.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/Decimal64.java
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* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/QNameAwareDataInput.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/XMLNamespace.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/ErrorSeverity.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/ETv1.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/ErrorTag.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/XNv1.java
*
 /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/QNameAwareDataOutput.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/ErrorType.java
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* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/QNv1.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/UintConversions.java
* /yang-common-11-0-4-sources-jar/module-info.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/AbstractQName.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/UQNv1.java
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* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/QName.java
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jar/org/opendaylight/yangtools/yang/common/AbstractCanonicalValueSupport.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/CanonicalValueValidator.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/CanonicalValueViolation.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/DerivedString.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/CachingDerivedString.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/CanonicalValueSupport.java
*
 /yang-common-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/common/AbstractCanonicalValueImplementationValidator.java
* /yang-common-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/common/AbstractCanonicalValueValidator.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/CanonicalValue.java
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* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/BiMapYangNamespaceContext.java
* /yang-common-11-0-4-sources-jar/org/opendaylight/yangtools/yang/common/YangNamespaceContext.java

1.780 aaa-idm-store-h2 0.18.3

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* /aaa-idm-store-h2-0-18-3-sources-jar/org/opendaylight/aaa/datastore/h2/RoleStore.java
* /aaa-idm-store-h2-0-18-3-sources-jar/org/opendaylight/aaa/datastore/h2/UserStore.java
* /aaa-idm-store-h2-0-18-3-sources-jar/org/opendaylight/aaa/datastore/h2/IdmLightConfig.java

1.781 sal-akka-raft 8.0.3

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* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AE.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/RV.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/IR.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/AJE.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/FI.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/SS.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/IS.java
*
 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/LE.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/VR.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AR.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/UT.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/NP.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/DE.java

* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/LegacySerializable.java
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* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/DeleteEntries.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/ServerChangeReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/TimeoutNow.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/UpdateElectionTerm.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/ApplyJournalEntries.java
*
 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/NoopPayload.java
* /sal-akka-raft-8-0-3-sources-
jar/org/opendaylight/controller/cluster/raft/base/messages/CheckConsensusReached.java
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* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/RemoveServerReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/SnapshotState.java
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* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/policy/DefaultRaftPolicy.java
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/sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/SyncStatusTracker.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/policy/RaftPolicy.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/ServerRemoved.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ElectionTermImpl.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ReplicatedLogImpl.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/InitiateCaptureSnapshot.java
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* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/TimedRunnable.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AddServer.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/SnapshotComplete.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/client/messages/GetSnapshot.java
*
 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorRecoverySupport.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/client/messages/Shutdown.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorRecoveryCohort.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/ServerConfigurationPayload.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/client/messages/GetSnapshotReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/ServerInfo.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/NoopProcedure.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/NoopPeerAddressResolver.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorSnapshotCohort.java
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 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/VotingState.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/PeerInfo.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/client/messages/OnDemandRaftState.java
* /sal-akka-raft-8-0-3-sources-
jar/org/opendaylight/controller/cluster/raft/messages/AbstractServerChangeReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorLeadershipTransferCohort.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorSnapshotMessageSupport.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AddServerReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorServerConfigurationSupport.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ImmutableElectionTerm.java
* /sal-akka-raft-8-0-3-sources-
jar/org/opendaylight/controller/cluster/raft/client/messages/GetOnDemandRaftState.java
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 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/PersistentPayload.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/PeerAddressResolver.java

* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorDelegatingPersistentDataProvider.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/LeaderTransitioning.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftVersions.java
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* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/RequestVoteReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AppendEntriesReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/Candidate.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/RequestVote.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/Leader.java
*
 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AppendEntries.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/Replicate.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/Follower.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/IsolatedLeader.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ReplicatedLogEntry.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/AbstractLeader.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/RaftActorBehavior.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/AbstractRaftActorBehavior.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/AbstractRaftRPC.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/CaptureSnapshot.java
*
 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorContextImpl.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/FollowerLogInformation.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/DefaultConfigParamsImpl.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/SendHeartBeat.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/client/messages/FindLeader.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/InstallSnapshot.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/ApplyState.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/behaviors/SnapshotTracker.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/ApplySnapshot.java
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 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ElectionTerm.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/SendInstallSnapshot.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/ElectionTimeout.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/base/messages/CaptureSnapshotReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/SnapshotManager.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/Snapshot.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/AbstractReplicatedLogImpl.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ClientRequestTrackerImpl.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/messages/RaftRPC.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ReplicatedLog.java
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 /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ConfigParams.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/RaftActorContext.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/client/messages/FindLeaderReply.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/ClientRequestTracker.java
* /sal-akka-raft-8-0-3-sources-jar/org/opendaylight/controller/cluster/raft/persisted/SimpleReplicatedLogEntry.java

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1.782 mdsal-binding-api 12.0.3

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* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/ReadTransaction.java
* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/RpcConsumerRegistry.java
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jar/org/opendaylight/mdsal/binding/api/TransactionChainClosedException.java
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* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/ActionProviderService.java
* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/WriteOperations.java
* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/ActionService.java
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* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/query/QueryExecutor.java
* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/QueryOperations.java
* /mdsal-binding-api-12-0-3-sources-jar/org/opendaylight/mdsal/binding/api/query/DescendantQueryBuilder.java
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1.783 mdsal-singleton-dom-impl 12.0.3

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1.784 bcpkix-framework-ext 13.0.7

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1.785 mdsal-dom-spi 12.0.3

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* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/AbstractDOMStoreTreeChangePublisher.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/ForwardingDOMStoreThreePhaseCommitCohort.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/DOMNotificationSubscriptionListener.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/AbstractDOMRpcImplementationRegistration.java
*
 /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTreeChangePublisher.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcResult.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/DefaultDOMRpcResult.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/RegistrationTreeSnapshot.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/AbstractRegistrationTree.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcImplementation.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcService.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/RegistrationTreeNode.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMRpcProviderService.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedTransactions.java
*
 /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/AbstractDOMDataTreeChangeListenerRegistration.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/DOMDataTreePrefixTableEntry.java
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* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/AbstractDOMStoreTransaction.java
* /mdsal-dom-spi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMNotificationPublishService.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMNotificationService.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/PingPongTransactionChain.java
*
 /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStore.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreReadWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTransaction.java
* /mdsal-dom-spi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataReadWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataWriteTransaction.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/AbstractPingPongTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/spi/store/AbstractSnapshotBackedTransactionChain.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedWriteTransaction.java
*
 /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreTransactionFactory.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreReadTransaction.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/PingPongTransaction.java
* /mdsal-dom-spi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/spi/store/DOMStoreThreePhaseCommitCohort.java
* /mdsal-dom-spi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataReadOnlyTransaction.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMDataBroker.java
* /mdsal-dom-spi-12-0-3-sources-
jar/org/opendaylight/mdsal/dom/spi/store/SnapshotBackedReadWriteTransaction.java

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* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMActionService.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/query/DOMQueryIterator.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMExtensibleService.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/query/LazyDOMQueryResult.java
* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/ForwardingDOMActionProviderService.java
*
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* /mdsal-dom-spi-12-0-3-sources-jar/org/opendaylight/mdsal/dom/spi/FixedDOMSchemaService.java

1.786 yang-ext 2013.09.07.24.3

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```
* <p>
* This class represents the following YANG schema fragment defined in module <b>yang-ext</b>
* <pre>
* module yang-ext {
*   yang-version 1;
*   namespace urn:opendaylight:yang:extension:yang-ext;
*   prefix ext;
*   revision 2013-07-09 {
*   }
*   extension augment-identifier {
*     argument identifier;
*   }
*   extension mount {
*   }
*   grouping rpc-context-ref {
*     leaf context-instance {
*       type instance-identifier;
*     }
*   }
*   extension rpc-context-instance {
*     argument context-type;
*   }
*   extension context-reference {
*     argument context-type;
*   }
*
 extension context-instance {
*     argument context-type;
*   }
*   extension instance-target {
*     argument path;
*   }
* }
* </pre>
*
*/
```

Found in path(s):
* /yang-ext-2013-09-07-24-3-sources-jar/org/opendaylight/yang/gen/v1/urn/opendaylight/yang/extension/yang/ext/rev130709/YangExtData.java
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1.787 mdsal-binding-dom-adapter 12.0.3

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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/LazyDOMRpcResultFuture.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/LazySerializedContainerNode.java

* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/ContextReferenceExtractor.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/InstanceNotificationPublishServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcInvocationStrategy.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractRpcAdapter.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/InstanceNotificationServiceAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractLazySerializedEvent.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMNotificationListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingMountPointAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDataTreeChangeListenerRegistration.java
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/mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/LazyDataObjectModification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMAdapterLoader.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AdapterLoader.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/InstanceNotificationListenerAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractBindingLoadingAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionProviderServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractBindingAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/package-info.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingOperationFluentFuture.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/ServiceProperties.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/DynamicBindingAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionServiceAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/ActionAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/RpcResultUtil.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataTreeCommitCohortAdapter.java

* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataTreeCommitCohortRegistryAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiNotificationService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/AbstractValueMatchBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiDataBroker.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryResult.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultValueMatch.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiRpcConsumerRegistry.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiMountPointService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultComparableMatchBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiActionProviderService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryResultSpliterator.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultStringMatchBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiNotificationPublishService.java
*
 /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultDescendantQueryBuilder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AdapterContext.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/OSGiBlockingBindingNormalizer.java
* /mdsal-binding-dom-adapter-12-0-3-sources-

jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiActionService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/LambdaDecoder.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryResultItem.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/AdaptingTracker.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQuery.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/QueryBuilderState.java
*
/mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/ConstantAdapterContext.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultQueryFactory.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/SimpleQueryExecutor.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/query/DefaultMatchBuilderPath.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/AbstractAdaptedService.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/CurrentAdapterSerializer.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/osgi/OSGiRpcProviderService.java
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jar/org/opendaylight/mdsal/binding/dom/adapter/LazyAugmentationModification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataChangeListenerAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractDataObjectModification.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/module-info.java
* /mdsal-binding-dom-adapter-12-0-3-sources-
jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataListenerAdapter.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/spi/AdapterFactory.java
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* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMReadTransactionAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/AbstractForwardedTransaction.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMWriteTransactionAdapter.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingRpcAdapterRegistration.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMTransactionChainAdapter.java

*
/mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMRpcAdapterRegistration.java
* /mdsal-binding-dom-adapter-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/adapter/BindingDOMDataBrokerAdapter.java

1.788 rfc6241-parser-support 11.0.4

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* /rfc6241-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6241/parser/RefGetFilterElementAttributesStatement.java
* /rfc6241-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/rfc6241/parser/GetFilterElementAttributesStatementImpl.java

1.789 aaa-cert 0.18.3

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* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/impl/KeyStoreConstant.java

* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/api/IAaaCertProvider.java
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* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/impl/KeyStoresDataUtils.java
* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/api/ICertificateManager.java
* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/impl/DefaultMdsalSslData.java
* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/impl/CertificateManagerService.java
* /aaa-cert-0-18-3-sources-jar/org/opendaylight/aaa/cert/impl/AaaCertMdsalProvider.java

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1.790 yang-ir 11.0.4

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* /yang-ir-11-0-4-sources-jar/org/opendaylight/yangtools/yang/ir/IRKeyword.java
* /yang-ir-11-0-4-sources-jar/org/opendaylight/yangtools/yang/ir/IRArgument.java
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1.791 yang-data-tree-api 11.0.4

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* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeTip.java
* /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/CursorAwareDataTreeModification.java
* /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/SchemaValidationFailedException.java
* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/TreeType.java
*
 /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/CursorAwareDataTreeSnapshot.java
* /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/BackendFailedException.java
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jar/org/opendaylight/yangtools/yang/data/tree/api/DataValidationFailedException.java
* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeCandidate.java
* /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeCandidateNode.java
* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeFactory.java
* /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/ConflictingModificationAppliedException.java
*
 /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/ModifiedNodeDoesNotExistException.java
* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTree.java
* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/DataTreeModification.java
* /yang-data-tree-api-11-0-4-sources-jar/org/opendaylight/yangtools/yang/data/tree/api/ModificationType.java
* /yang-data-tree-api-11-0-4-sources-
jar/org/opendaylight/yangtools/yang/data/tree/api/IncorrectDataStructureException.java
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jar/org/opendaylight/yangtools/yang/data/tree/api/RequiredElementCountException.java
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1.792 mdsal-binding-dom-codec-spi 12.0.3

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Found in path(s):
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/BindingDOMCodecFactory.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/AbstractLazyActionContainerNode.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/module-info.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/AbstractBindingNormalizedNodeSerializer.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/ForwardingBindingDOMCodecServices.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/LazyActionOutputContainerNode.java
*
 /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/LazyActionInputContainerNode.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/BindingDOMCodecServices.java
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* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/BindingSchemaMapping.java
* /mdsal-binding-dom-codec-spi-12-0-3-sources-jar/org/opendaylight/mdsal/binding/dom/codec/spi/AbstractBindingLazyContainerNode.java

1.793 threadpool-config-api 0.19.3

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Found in path(s):
* /threadpool-config-api-0-19-3-sources-jar/org/opendaylight/controller/config/threadpool/ThreadPool.java
* /threadpool-config-api-0-19-3-sources-jar/org/opendaylight/controller/config/threadpool/ScheduledThreadPool.java

1.794 netconf-auth 6.0.5

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1.795 odlext-parser-support 11.0.4

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* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/AbstractIdentityAwareStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/AugmentIdentifierEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/AugmentIdentifierStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/InstanceTargetEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RpcContextReferenceStatementImpl.java
*
 /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/InstanceTargetStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/ContextReferenceStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RpcContextReferenceStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RefAugmentIdentifierStatement.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/MountEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RefContextReferenceStatement.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/ContextInstanceStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/MountStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RpcContextReferenceEffectiveStatementImpl.java
*
 /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/InstanceTargetStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/MountStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RefRpcContextReferenceStatement.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RefInstanceTargetStatement.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/ContextInstanceEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/ContextInstanceStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RefContextInstanceStatement.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/RefMountStatement.java

*
/odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/AugmentIdentifierStatementSupport.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/ContextReferenceEffectiveStatementImpl.java
* /odlext-parser-support-11-0-4-sources-jar/org/opendaylight/yangtools/odlext/parser/ContextReferenceStatementImpl.java
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1.796 zlib 1.3.1-r0

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1.797 zlib 1.2.3

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1.798 zlib 1.2.8

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1.799 zlib 1.2.5

1.799.1 Available under license :

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version 1.2.5, April 19th, 2010

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

1.800 busybox 1.36.1-r19

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Julian Seward, Cambridge, UK.
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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.804 metrics 4.2.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
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
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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: 4.2.25
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.25
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.25
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-core-4-2-25-jar/META-INF/MANIFEST.MF

1.805 markupsafe 2.1.5

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* /sailfishos-mirror-markupsafe-2-1-5-0-gfbba4ac-tar-gz/sailfishos-mirror-markupsafe-0e6f6a4/setup.cfg

1.806 python-pip 24.0

1.806.1 Available under license :

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.807 tzdata 2024a-r0

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1.808 alpine-baselayout-data 3.4.3-r2

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```
# Automatically generated by apkbuild-cpan, template 3
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=9
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL INSTALLDIRS=vendor
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
```

```
sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.2.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
7be7ebab1d980063ab846a228c5247570d0e23ed52f4362ef7d88eb7a59274e6f74653b4e9cff8225597693087d750c5
bf7fcf604440d8d3d2976ebcd7442c24
  license-expression-30.2.0.tar.gz
"
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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
Maintainer: Jakub Panek <me@panekj.dev>
pkgname=cargo-license
pkgver=0.5.1
pkgrel=4
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all !s390x !riscv64" # rust
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {

```
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
4d8d430df91c6aac53d2305d3125eaeee492324e85c4db29d33d452b3848f33a55088e71247c6c72c6a62f4e924a374a
115bf14b4f398e7950b9eb52415f2244  cargo-license-0.5.1.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --localstatedir=/var/lib # it really shouldn't be in /var
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
"
```

```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.22
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt; do
  local license=${i##*/}
  echo
 ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
b213fe66699770d75a4c994a01a5c08325751423516c2fb871088a47e7e7ce605736064f5ce3a63dc1d3c462271832db
7bc464ac968df1888f9823787964c786  license-list-data-3.22.tar.gz
"
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```

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pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"

```
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 python3 setup.py build
}

package() {
 python3 setup.py install --skip-build --root="$pkgdir"
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d  flake8-copyright-0.2.4.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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```
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.809 apache-servicemix-bundles-kafka-clients 3.6.1_1

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```
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```

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1.810 asm 3.3.1

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*
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
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*
 /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/MethodAdapter.java
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/ASMifierFieldVisitor.java
* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
*
 /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/ClassVisitor.java
* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/analysis/Frame.java
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/signature/SignatureVisitor.java
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/TraceAbstractVisitor.java
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/MethodInsnNode.java
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/analysis/BasicValue.java
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* /asm-all-3-3-1-sources-7-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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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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It is currently developed by a community of developers.

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1.816 jackson 2.15.4

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1.817 jackson-databind 2.15.4

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1.818 jackson-dataformat-yaml 2.15.4

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1.819 ca-certificates 20240226-r0

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```
#!/usr/bin/env perl
# ***************************************************************************
# *                                  _   _ ____  _
# *  Project                     ___| | | |  _ \| |
# *                             / __| | | | |_) | |
# *                            | (__| |_| |  _ <| |___
# *                             \___|\___/|_| \_\_____|
# *
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# *
# ***************************************************************************
# This Perl script creates a fresh ca-bundle.crt file for use with libcurl.
# It downloads certdata.txt from Mozilla's source tree (see URL below),
# then parses certdata.txt and extracts CA Root Certificates into PEM format.
# These are then processed with the OpenSSL commandline tool to produce the
# final ca-bundle.crt file.
# The script is based on the parse-certs script written by Roland Krikava.
# This Perl script works on almost any platform since its only external
# dependency is the OpenSSL commandline tool for optional text listing.
# Hacked by Guenter Knauf.
#
use Encode;
use Getopt::Std;
use MIME::Base64;
```

```
use strict;
use warnings;
use vars qw($opt_b $opt_d $opt_f $opt_h $opt_i $opt_k $opt_l $opt_m $opt_n $opt_p $opt_q $opt_s $opt_t $opt_u
$opt_v $opt_w);
use List::Util;
use Text::Wrap;
use Time::Local;
my $MOD_SHA = "Digest::SHA";
eval "require
 $MOD_SHA";
if ($@) {
 $MOD_SHA = "Digest::SHA::PurePerl";
 eval "require $MOD_SHA";
}
eval "require LWP::UserAgent";

my %urls = (
 'nss' =>
   'https://hg.mozilla.org/projects/nss/raw-file/default/lib/ckfw/builtins/certdata.txt',
 'central' =>
   'https://hg.mozilla.org/mozilla-central/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
 'beta' =>
   'https://hg.mozilla.org/releases/mozilla-beta/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
 'release' =>
   'https://hg.mozilla.org/releases/mozilla-release/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
);

$opt_d = 'release';

# If the OpenSSL commandline is not in search path you can configure it here!
my $openssl = 'openssl';

my $version = '1.27';

$opt_w = 76; # default base64 encoded lines length

# default cert types to include in the output (default is to include CAs which may issue SSL server certs)
my $default_mozilla_trust_purposes = "SERVER_AUTH";
my $default_mozilla_trust_levels
 = "TRUSTED_DELEGATOR";
$opt_p = $default_mozilla_trust_purposes . ":" . $default_mozilla_trust_levels;

my @valid_mozilla_trust_purposes = (
 "DIGITAL_SIGNATURE",
 "NON_REPUDIATION",
 "KEY_ENCIPHERMENT",
 "DATA_ENCIPHERMENT",
 "KEY_AGREEMENT",
```

```
 "KEY_CERT_SIGN",
 "CRL_SIGN",
 "SERVER_AUTH",
 "CLIENT_AUTH",
 "CODE_SIGNING",
 "EMAIL_PROTECTION",
 "IPSEC_END_SYSTEM",
 "IPSEC_TUNNEL",
 "IPSEC_USER",
 "TIME_STAMPING",
 "STEP_UP_APPROVED"
);

my @valid_mozilla_trust_levels = (
 "TRUSTED_DELEGATOR",    # CAs
 "NOT_TRUSTED",          # Don't trust these certs.
 "MUST_VERIFY_TRUST",    # This explicitly tells us that it ISN'T a CA but is otherwise ok. In other words, this
should tell the app to ignore any other sources that claim this is a CA.
 "TRUSTED"               # This cert is trusted, but only for itself and not for delegates (i.e. it is not a CA).
);

my $default_signature_algorithms = $opt_s = "MD5";

my @valid_signature_algorithms = (
 "MD5",
 "SHA1",
  "SHA256",
 "SHA384",
 "SHA512"
);

$0 =~ s@.*(/|\\)@@;
$Getopt::Std::STANDARD_HELP_VERSION = 1;
getopts('bd:fhiklmnp:qs:tuvw:');

if(!defined($opt_d)) {
   # to make plain "-d" use not cause warnings, and actually still work
   $opt_d = 'release';
}

# Use predefined URL or else custom URL specified on command line.
my $url;
if(defined($urls{$opt_d})) {
 $url = $urls{$opt_d};
 if(!$opt_k && $url !~ /^https:\/\//i) {
   die "The URL for '$opt_d' is not HTTPS. Use -k to override (insecure).\n";
 }
}
```

```
else {
 $url = $opt_d;
}

my $curl = `curl -V`;

if ($opt_i) {
 print ("=" x 78 . "\n");
 print "Script Version                  : $version\n";
 print "Perl Version                   : $]\n";
 print "Operating System Name          : $^O\n";
 print "Getopt::Std.pm Version         : ${Getopt::Std::VERSION}\n";
 print "Encode::Encoding.pm Version    : ${Encode::Encoding::VERSION}\n";
 print "MIME::Base64.pm Version        : ${MIME::Base64::VERSION}\n";
 print "LWP::UserAgent.pm
 Version       : ${LWP::UserAgent::VERSION}\n" if($LWP::UserAgent::VERSION);
 print "LWP.pm Version                 : ${LWP::VERSION}\n" if($LWP::VERSION);
 print "Digest::SHA.pm Version         : ${Digest::SHA::VERSION}\n" if ($Digest::SHA::VERSION);
 print "Digest::SHA::PurePerl.pm Version : ${Digest::SHA::PurePerl::VERSION}\n" if
($Digest::SHA::PurePerl::VERSION);
 print ("=" x 78 . "\n");
}

sub warning_message() {
 if ( $opt_d =~ m/^risk$/i ) { # Long Form Warning and Exit
   print "Warning: Use of this script may pose some risk:\n";
   print "\n";
   print "  1) If you use HTTP URLs they are subject to a man in the middle attack\n";
   print "  2) Default to 'release', but more recent updates may be found in other trees\n";
   print "  3) certdata.txt file format may change, lag time to update this script\n";
   print "  4) Generally unwise to blindly trust CAs without manual review & verification\n";
   print "  5) Mozilla apps use additional security
 checks aren't represented in certdata\n";
   print "  6) Use of this script will make a security engineer grind his teeth and\n";
   print "     swear at you.  ;)\n";
   exit;
 } else { # Short Form Warning
   print "Warning: Use of this script may pose some risk, -d risk for more details.\n";
 }
}

sub HELP_MESSAGE() {
 print "Usage:\t${0} [-b] [-d<certdata>] [-f] [-i] [-k] [-l] [-n] [-p<purposes:levels>] [-q] [-s<algorithms>] [-t] [-u] [-
v] [-w<l>] [<outputfile>]\n";
 print "\t-b\tbackup an existing version of ca-bundle.crt\n";
 print "\t-d\tspecify Mozilla tree to pull certdata.txt or custom URL\n";
 print "\t\t  Valid names are:\n";
 print "\t\t    ", join( ", ", map { ( $_ =~ m/$opt_d/ ) ? "$_ (default)" : "$_" } sort keys %urls ), "\n";
```

```
 print "\t-f\tforce rebuild even if certdata.txt is current\n";
 print "\t-i\tprint version info about used modules\n";
 print "\t-k\tallow URLs other than HTTPS, enable HTTP fallback (insecure)\n";
 print "\t-l\tprint license info
 about certdata.txt\n";
 print "\t-m\tinclude meta data in output\n";
 print "\t-n\tno download of certdata.txt (to use existing)\n";
 print wrap("\t","\t\t", "-p\tlist of Mozilla trust purposes and levels for certificates to include in output. Takes the
form of a comma separated list of purposes, a colon, and a comma separated list of levels. (default:
$default_mozilla_trust_purposes:$default_mozilla_trust_levels)"), "\n";
 print "\t\t  Valid purposes are:\n";
 print wrap("\t\t    ","\t\t    ", join( ", ", "ALL", @valid_mozilla_trust_purposes ) ), "\n";
 print "\t\t  Valid levels are:\n";
 print wrap("\t\t    ","\t\t    ", join( ", ", "ALL", @valid_mozilla_trust_levels ) ), "\n";
 print "\t-q\tbe really quiet (no progress output at all)\n";
 print wrap("\t","\t\t", "-s\tcomma separated list of certificate signatures/hashes to output in plain text mode. (default:
$default_signature_algorithms)\n");
 print "\t\t  Valid signature algorithms are:\n";
 print wrap("\t\t    ","\t\t
    ", join( ", ", "ALL", @valid_signature_algorithms ) ), "\n";
 print "\t-t\tinclude plain text listing of certificates\n";
 print "\t-u\tunlink (remove) certdata.txt after processing\n";
 print "\t-v\tbe verbose and print out processed CAs\n";
 print "\t-w <l>\twrap base64 output lines after <l> chars (default: ${opt_w})\n";
 exit;
}

sub VERSION_MESSAGE() {
 print "${0} version ${version} running Perl ${]} on ${^O}\n";
}

warning_message() unless ($opt_q || $url =~ m/^(ht|f)tps:/i );
HELP_MESSAGE() if ($opt_h);

sub report($@) {
 my $output = shift;

 print STDERR $output . "\n" unless $opt_q;
}

sub is_in_list($@) {
 my $target = shift;

 return defined(List::Util::first { $target eq $_ } @_);
}

# Parses $param_string as a case insensitive comma separated list with optional whitespace
# validates that only allowed parameters are supplied
```

```
sub parse_csv_param($$@) {
 my $description = shift;
 my $param_string = shift;
 my @valid_values = @_;

 my @values = map {
   s/^\s+//;  # strip leading spaces
  s/\s+$//;  # strip trailing spaces
  uc $_      # return the modified string as upper case
 } split( ',', $param_string );

 # Find all values which are not in the list of valid values or "ALL"
 my @invalid = grep { !is_in_list($_,"ALL",@valid_values) } @values;

 if ( scalar(@invalid) > 0 ) {
  # Tell the user which parameters were invalid and print the standard help message which will exit
  print "Error: Invalid ", $description, scalar(@invalid) == 1 ? ": " : "s: ", join( ", ", map { "\"$_\"" } @invalid ),
"\n";
  HELP_MESSAGE();
 }

 @values = @valid_values if ( is_in_list("ALL",@values) );

 return @values;
}

sub sha256 {
 my $result;
 if ($Digest::SHA::VERSION || $Digest::SHA::PurePerl::VERSION) {
  open(FILE, $_[0]) or die "Can't open '$_[0]': $!";
  binmode(FILE);
  $result = $MOD_SHA->new(256)->addfile(*FILE)->hexdigest;
  close(FILE);
 } else {
  # Use OpenSSL command if Perl Digest::SHA modules not available
   $result = `"$openssl" dgst -r -sha256 "$_[0]"`;
  $result =~ s/^([0-9a-f]{64}) .+/$1/is;
 }
 return $result;
}


sub oldhash {
 my $hash = "";
 open(C, "<$_[0]") || return 0;
 while(<C>) {
  chomp;
  if($_ =~ /^\#\# SHA256: (.*)/) {
```

```
    $hash = $1;
    last;
  }
 }
 close(C);
 return $hash;
}

if ( $opt_p !~ m/:/ ) {
 print "Error: Mozilla trust identifier list must include both purposes and levels\n";
 HELP_MESSAGE();
}

(my $included_mozilla_trust_purposes_string, my $included_mozilla_trust_levels_string) = split( ':', $opt_p );
my @included_mozilla_trust_purposes = parse_csv_param( "trust purpose",
$included_mozilla_trust_purposes_string, @valid_mozilla_trust_purposes );
my @included_mozilla_trust_levels = parse_csv_param( "trust level", $included_mozilla_trust_levels_string,
@valid_mozilla_trust_levels );

my @included_signature_algorithms = parse_csv_param( "signature algorithm", $opt_s,
@valid_signature_algorithms );

sub should_output_cert(%) {
 my
 %trust_purposes_by_level = @_;

 foreach my $level (@included_mozilla_trust_levels) {
  # for each level we want to output, see if any of our desired purposes are included
  return 1 if ( defined( List::Util::first { is_in_list( $_, @included_mozilla_trust_purposes ) }
@{$trust_purposes_by_level{$level}} ) );
 }

 return 0;
}

my $crt = $ARGV[0] || 'ca-bundle.crt';
(my $txt = $url) =~ s@(.*/|\?.*)@@g;

my $stdout = $crt eq '-';
my $resp;
my $fetched;

my $oldhash = oldhash($crt);

report "SHA256 of old file: $oldhash";

if(!$opt_n) {
 report "Downloading $txt ...";
```

```
# If we have an HTTPS URL then use curl
if($url =~ /^https:\/\/i) {
  if($curl) {
    if($curl =~ /^Protocols:.* https( |$)/m) {
      report "Get certdata with curl!";
      my $proto = !$opt_k ? "--proto =https" : "";
      my $quiet = $opt_q ? "-s" : "";
      my @out = `curl -w %{response_code} $proto $quiet -o "$txt" "$url"`;
      if(!$? && @out && $out[0] == 200) {
        $fetched = 1;
         report "Downloaded $txt";
      }
      else {
        report "Failed downloading via HTTPS with curl";
        if(-e $txt && !unlink($txt)) {
          report "Failed to remove '$txt': $!";
        }
      }
    }
    else {
      report "curl lacks https support";
    }
  }
  else {
    report "curl not found";
  }
}

# If nothing was fetched then use LWP
if(!$fetched) {
  if($url =~ /^https:\/\/i) {
    report "Falling back to HTTP";
    $url =~ s/^https:\/\/http:\/\/i;
  }
  if(!$opt_k) {
    report "URLs other than HTTPS are disabled by default, to enable use -k";
    exit 1;
  }
  report "Get certdata with LWP!";
  if(!defined(${LWP::UserAgent::VERSION})) {
    report "LWP is not available (LWP::UserAgent not found)";
    exit 1;
  }
  my $ua  = new LWP::UserAgent(agent => "$0/$version");
  $ua->env_proxy();
  $resp = $ua->mirror($url, $txt);
  if($resp && $resp->code eq '304') {
```

```
    report "Not modified";
     exit 0 if -e $crt && !$opt_f;
   }
   else {
    $fetched = 1;
    report "Downloaded $txt";
   }
   if(!$resp || $resp->code !~ /^(?:200|304)$/) {
    report "Unable to download latest data: "
      . ($resp? $resp->code . ' - ' . $resp->message : "LWP failed");
    exit 1 if -e $crt || ! -r $txt;
   }
 }
}

my $filedate = $resp ? $resp->last_modified : (stat($txt))[9];
my $datesrc = "as of";
if(!$filedate) {
  # mxr.mozilla.org gave us a time, hg.mozilla.org does not!
  $filedate = time();
  $datesrc="downloaded on";
}

# get the hash from the download file
my $newhash= sha256($txt);

if(!$opt_f && $oldhash eq $newhash) {
  report "Downloaded file identical to previous run\'s source file. Exiting";
  if($opt_u && -e $txt && !unlink($txt)) {
     report "Failed to remove $txt: $!\n";
  }
  exit;
}

report "SHA256 of new file: $newhash";

my $currentdate = scalar gmtime($filedate);

my $format = $opt_t ? "plain text and " : "";
if( $stdout
 ) {
  open(CRT, '> -') or die "Couldn't open STDOUT: $!\n";
} else {
  open(CRT,">$crt.~") or die "Couldn't open $crt.~: $!\n";
}
print CRT <<EOT;
##
## Bundle of CA Root Certificates
```

```
##
## Certificate data from Mozilla ${datesrc}: ${currentdate} GMT
##
## This is a bundle of X.509 certificates of public Certificate Authorities
## (CA). These were automatically extracted from Mozilla's root certificates
## file (certdata.txt).  This file can be found in the mozilla source tree:
## ${url}
##
## It contains the certificates in ${format}PEM format and therefore
## can be directly used with curl / libcurl / php_curl, or with
## an Apache+mod_ssl webserver for SSL client authentication.
## Just configure this file as the SSLCACertificateFile.
##
## Conversion done with mk-ca-bundle.pl version $version.
## SHA256: $newhash
##

EOT

report "Processing  '$txt' ...";
my $caname;
my $certnum = 0;
my $skipnum = 0;
my $start_of_cert = 0;
my @precert;
my $cka_value;
my $valid = 1;

open(TXT,"$txt")
 or die "Couldn't open $txt: $!\n";
while (<TXT>) {
 if (/\*\*\*\*\* BEGIN LICENSE BLOCK \*\*\*\*\*/) {
   print CRT;
   print if ($opt_l);
   while (<TXT>) {
     print CRT;
     print if ($opt_l);
     last if (/\*\*\*\*\* END LICENSE BLOCK \*\*\*\*\*/);
   }
 }
 elsif(/^# (Issuer|Serial Number|Subject|Not Valid Before|Not Valid After |Fingerprint \(MD5\)|Fingerprint
\(SHA1\)):/) {
     push @precert, $_;
     $valid = 1;
     next;
 }
 elsif(/^#|^\s*$/) {
     undef @precert;
```

```
    next;
}
chomp;

# Example:
# CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
# \062\060\060\066\061\067\060\060\060\060\060\060\132
# END

if (/^CKA_NSS_SERVER_DISTRUST_AFTER (CK_BBOOL CK_FALSE|MULTILINE_OCTAL)/) {
    if($1 eq "MULTILINE_OCTAL") {
        my @timestamp;
        while (<TXT>) {
            last if (/^END/);
            chomp;
            my @octets = split(/\\/);
            shift @octets;
            for (@octets) {
                push
@timestamp, chr(oct);
            }
        }
        # A trailing Z in the timestamp signifies UTC
        if($timestamp[12] ne "Z") {
            report "distrust date stamp is not using UTC";
        }
        # Example date: 200617000000Z
        # Means 2020-06-17 00:00:00 UTC
        my $distrustat =
          timegm($timestamp[10] . $timestamp[11], # second
                 $timestamp[8] . $timestamp[9],   # minute
                 $timestamp[6] . $timestamp[7],   # hour
                 $timestamp[4] . $timestamp[5],   # day
                 ($timestamp[2] . $timestamp[3]) - 1, # month
                 "20" . $timestamp[0] . $timestamp[1]); # year
        if(time >= $distrustat) {
            # not trusted anymore
            $skipnum++;
            report "Skipping: $caname is not trusted anymore" if ($opt_v);
            $valid = 0;
        }
        else {
            # still trusted
        }
    }
    next;
}
```

```
# this
is a match for the start of a certificate
if (/^CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE/) {
  $start_of_cert = 1
}
if ($start_of_cert && /^CKA_LABEL UTF8 \"(.*)\"/) {
  $caname = $1;
}
my %trust_purposes_by_level;
if ($start_of_cert && /^CKA_VALUE MULTILINE_OCTAL/) {
  $cka_value="";
  while (<TXT>) {
    last if (/^END/);
    chomp;
    my @octets = split(/\\/);
    shift @octets;
    for (@octets) {
      $cka_value .= chr(oct);
    }
  }
}
if(/^CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST/ && $valid) {
  # now scan the trust part to determine how we should trust this cert
  while (<TXT>) {
    last if (/^#/);
    if (/^CKA_TRUST_([A-Z_]+)\s+CK_TRUST\s+CKT_NSS_([A-Z_]+)\s*$/) {
      if ( !is_in_list($1,@valid_mozilla_trust_purposes) ) {
        report "Warning: Unrecognized trust purpose for cert: $caname. Trust purpose: $1. Trust Level: $2";
      } elsif ( !is_in_list($2,@valid_mozilla_trust_levels) ) {
        report "Warning:
Unrecognized trust level for cert: $caname. Trust purpose: $1. Trust Level: $2";
      } else {
        push @{$trust_purposes_by_level{$2}}, $1;
      }
    }
  }

  if ( !should_output_cert(%trust_purposes_by_level) ) {
    $skipnum ++;
    report "Skipping: $caname" if ($opt_v);
  } else {
    my $data = $cka_value;
    $cka_value = "";
    my $encoded = MIME::Base64::encode_base64($data, '');
    $encoded =~ s/(.{1,${opt_w}})/$1\n/g;
    my $pem = "-----BEGIN CERTIFICATE-----\n"
            . $encoded
            . "-----END CERTIFICATE-----\n";
```

```
    print CRT "\n$caname\n";
    print CRT @precert if($opt_m);
    my $maxStringLength = length(decode('UTF-8', $caname, Encode::FB_CROAK | Encode::LEAVE_SRC));
    if ($opt_t) {
      foreach my $key (keys %trust_purposes_by_level) {
        my $string = $key . ": " . join(", ", @{$trust_purposes_by_level{$key}});
        $maxStringLength = List::Util::max( length($string), $maxStringLength
);
        print CRT $string . "\n";
      }
    }
    print CRT ("=" x $maxStringLength . "\n");
    if (!$opt_t) {
      print CRT $pem;
    } else {
      my $pipe = "";
      foreach my $hash (@included_signature_algorithms) {
        $pipe = "|$openssl x509 -" . $hash . " -fingerprint -noout -inform PEM";
        if (!$stdout) {
          $pipe .= " >> $crt.~";
          close(CRT) or die "Couldn't close $crt.~: $!";
        }
        open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
        print TMP $pem;
        close(TMP) or die "Couldn't close openssl pipe: $!";
        if (!$stdout) {
          open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
        }
      }
      $pipe = "|$openssl x509 -text -inform PEM";
      if (!$stdout) {
        $pipe .= " >> $crt.~";
        close(CRT) or die "Couldn't close $crt.~: $!";
      }
      open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
      print TMP
$pem;
      close(TMP) or die "Couldn't close openssl pipe: $!";
      if (!$stdout) {
        open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
      }
    }
    report "Parsing: $caname" if ($opt_v);
    $certnum ++;
    $start_of_cert = 0;
  }
  undef @precert;
}
```

```
}
close(TXT) or die "Couldn't close $txt: $!\n";
close(CRT) or die "Couldn't close $crt.~: $!\n";
unless( $stdout ) {
  if ($opt_b && -e $crt) {
     my $bk = 1;
     while (-e "$crt.~${bk}~") {
        $bk++;
     }
     rename $crt, "$crt.~${bk}~" or die "Failed to create backup $crt.~$bk}~: $!\n";
  } elsif( -e $crt ) {
     unlink( $crt ) or die "Failed to remove $crt: $!\n";
  }
  rename "$crt.~", $crt or die "Failed to rename $crt.~ to $crt: $!\n";
}
if($opt_u && -e $txt && !unlink($txt)) {
 report "Failed to remove $txt: $!\n";
}
report "Done ($certnum CA certs processed, $skipnum skipped).";
```

Found in path(s):
* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/mk-ca-bundle.pl
No license file was found, but licenses were detected in source scan.

```
/* c_rehash.c - Create hash symlinks for certificates
* C implementation based on the original Perl and shell versions
*
* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
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*
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*/
```

Found in path(s):
* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c_rehash.c

1.820 jackson-datatype-jdk8 2.15.4

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1.823 hibernate 6.4.4.Final

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#
org.hibernate.jpa.HibernatePersistenceProvider

Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider
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* See the lgpl.txt file in the root directory or http://www.gnu.org/licenses/lgpl-2.1.html
*/
/**
  * Subclass used to simply instantiation of singular attributes representing an entity's
  * version.
  */
```

Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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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-6-4-4-final-sources-jar/org/hibernate/dialect/Dialect.java
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```
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 -->
```

Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/persistence_1_0.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/xsd/mapping/legacy-mapping-4.0.xsd

* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/hibernate-mapping-4.0.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/persistence_2_1.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/persistence_2_0.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/hibernate-configuration-4.0.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/xsd/cfg/legacy-configuration-4.0.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/orm_1_0.xsd
*
 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/orm_2_1.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/orm_2_0.xsd
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedDiscriminatorColumn.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/cfg/MappingSettings.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperation.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/AbstractSingleMutationExecutor.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/EntityBinder.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/NamedEntityGraphDefinition.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/batch/internal/BatchBuilderImpl.java
*
 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/BagBinder.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/loader/internal/IdentifierLoadAccessImpl.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/persister/collection/mutation/InsertRowsCoordinatorNoOp.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/model/ast/AbstractRestrictedTableMutation.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/boot/model/internal/AttributeConverterDefinitionCollector.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/model/jdbc/JdbcUpdateMutation.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/persister/collection/mutation/RemoveCoordinatorStandard.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/cfg/SchemaToolingSettings.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/entity/mutation/UpdateCoordinator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/java/spi/JsonJavaType.java
*
 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/XMLContext.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/mapping/ToOneAttribute.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnAndFormulaTarget.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/model/ast/TableUpdate.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/collection/mutation/UpdateRowsCoordinator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/FlushModeMarshalling.java

* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/HbmTransformationLogging.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/ResultSetMappingContainer.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/model/PreparableMutationOperation.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/batch/JdbcBatchLogging.java
*
/hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/PersistentAttributeFilter.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/IdBagBinder.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/cfg/JpaComplianceSettings.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/id/insert/GetGeneratedKeysDelegate.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/entity/DeprecatedEntityStuff.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/BinderHelper.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/entity/mutation/TableSet.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/results/implicit/ImplicitResultClassBuilder.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/NullnessRestriction.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/entity/mutation/EntityMutationTarget.java
*
/hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/cfgxml/internal/package-info.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/SqmMultiTableMutationStrategyProviderInitiator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/model/jdbc/OptionalTableUpdateOperation.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/mapping/SchemaAware.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/Batch.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/MutationExecutorSingleBatched.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/AnnotationBinder.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/LockModeTypeMarshalling.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/temptable/AbstractDeleteExecutionDelegate.java
*
/hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/model/internal/OptionalTableUpdate.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/SqlAstTranslatorWithMerge.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/exec/internal/JdbcOperationQueryInsertImpl.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/persister/collection/mutation/DeleteRowsCoordinatorTablePerSubclass.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/graph/spi/GraphHelper.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/OracleSqlAstTranslator.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/IdGeneratorType.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/query/sqm/tree/expression/SqmParameterizedEntityType.java
* /hibernate-core-6-4-4-final-sources-
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 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/tree/from/SqmEntityJoin.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/JpaComplianceViolation.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/generator/GeneratorCreationContext.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/ast/tree/cte/CteSearchClauseKind.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sql/spi/NativeNonSelectQueryPlan.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/id/factory/internal/SequenceGenerationTypeStrategy.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/metamodel/mapping/ordering/ast/PathResolutionException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/results/internal/RowTransformerJpaTupleImpl.java
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 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/ast/tree/insert/Values.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/SqmTreeCreationLogger.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/internal/SqmUtil.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/graph/internal/RootGraphImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/function/array/PostgreSQLArrayFillFunction.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/loader/ast/internal/AbstractNaturalIdLoader.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/metamodel/mapping/ordering/ast/CollectionPartPath.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/temptable/ExecuteWithoutIdTableHelper.java
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 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/procedure/internal/ProcedureParamBindings.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/tree/select/SqmJpaCompoundSelection.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/resource/beans/container/internal/CdiBasedBeanContainer.java

* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/internal/build/AllowPrintStacktrace.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/spi/QueryOptions.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/ast/tree/from/TableReferenceJoin.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/event/internal/package-info.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/internal/util/MutableLong.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/resource/beans/container/internal/NamedBeanQualifier.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/function/TrimFunction.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/tree/update/SqmAssignment.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/results/graph/entity/EntityLoadingLogging.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/ParsingException.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/named/ResultMappingMementoNode.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmBasicValuedSimplePath.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/JavaTypeRegistrations.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/Instantiator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/spi/package-info.java
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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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* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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```
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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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*/
/**
 * Use the proprietary WITH ROLLUP or WITH CUBE clause.
 */

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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/hibernate-mapping-3.0.dtd
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/registry/classloading/internal/package-info.java
* /hibernate-core-6-4-4-final-sources-
jar/org/hibernate/engine/jdbc/connections/internal/DriverConnectionCreator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/internal/MutableJpaComplianceImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/internal/SessionFactoryBuilderImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/internal/ImplicitToOneJoinTableSecondPass.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/cfgxml/spi/MappingReference.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/property/access/spi/PropertyAccess.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/env/spi/AnsiSqlKeywords.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/archive/spi/ArchiveDescriptor.java
* /hibernate-core-6-4-4-final-sources-

jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeMapKeyManyToManySourceImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/event/spi/FlushEntityEventListener.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tool/schema/spi/SchemaTruncator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/internal/util/LockModeConverter.java
* /hibernate-core-6-4-4-final-sources-
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/hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/MappingNotFoundException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/MyISAMStorageEngine.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/SQLInsert.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/Subselect.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/mapping/CheckConstraint.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/jdbc/IntegerJdbcType.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/jdbc/DelegatingJdbcTypeIndicators.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tool/schema/spi/ExceptionHandler.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/QueryHints.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/TruthValue.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/internal/Formatter.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/resource/jdbc/internal/LogicalConnectionManagedImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tuple/IdentifierProperty.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/action/internal/package-info.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/metadata/CollectionMetadata.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/cache/internal/DefaultCacheKeysFactory.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/bytecode/internal/bytebuddy/PassThroughInterceptor.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/java/LongJavaType.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/pagination/LegacyHSQLLimitHandler.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/proxy/pojo/bytebuddy/ByteBuddyProxyFactory.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tuple/entity/VersionProperty.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/AbstractType.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/EntityNamingSourceImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/event/internal/DefaultUpdateEventListener.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/cache/internal/CollectionCacheInvalidator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/AttributeMapping.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/walking/spi/AttributeSource.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/resource/transaction/NullSynchronizationException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/UnknownProfileException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/SQLOrder.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/jaxb/internal/JarFileEntryXmlSource.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/bytecode/enhance/internal/bytebuddy/FieldReaderAppender.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/spi/package-info.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/mapping/SingleTableSubclass.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/RowId.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/action/internal/EntityDeleteAction.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/query/internal/NativeQueryInterpreterStandardImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/entity/Loadable.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/OracleXmlJdbcType.java
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 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/procedure/internal/NamedCallableQueryMementoImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/SetType.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/Cascade.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/java/StringJavaType.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/CommaSeparatedStringHelper.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeSourceMapImpl.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/id/enhanced/TableStructure.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/transaction/jta/platform/package-info.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tool/schema/spi/SchemaFilterProvider.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/registry/classloading/spi/ClassLoadingException.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/context/TenantIdentifierMismatchException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/binder/internal/TenantIdBinder.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/proxy/pojo/bytebuddy/ByteBuddyProxyHelper.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/graph/InvalidGraphException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/internal/SessionFactoryRegistry.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/LobCreator.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/internal/UnsavedValueFactory.java

* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jdbc/Expectations.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tool/schema/spi/SchemaCreator.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/jdbc/ArrayJdbcType.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/jdbc/InstantAsTimestampJdbcType.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/id/enhanced/StandardOptimizerDescriptor.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/OptimisticLockStyle.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/Comment.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/context/package-info.java
* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/exception/ConstraintViolationException.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/tool/schema/internal/exec/AbstractScriptTargetOutput.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/CollectionType.java
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 /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/sequence/MariaDBSequenceSupport.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/descriptor/java/AbstractArrayJavaType.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/resource/transaction/backend/jdbc/package-info.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/boot/spi/EntityManagerFactoryBuilder.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jdbc/AbstractWork.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/internal/util/collections/JoinedList.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/jdbc/dialect/spi/BasicDialectResolver.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/event/spi/PostCommitDeleteEventListener.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/JoinColumnOrFormula.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/procedure/internal/Util.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/engine/transaction/jta/platform/spi/JtaPlatformException.java

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* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/event/internal/WrapVisitor.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/internal/BindingTypeHelper.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/annotations/Target.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/sql/ForUpdateFragment.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/boot/spi/AdditionalJaxbMappingProducer.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/MultiIdentifierLoadAccess.java
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/mapping/UserDefinedType.java
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* /hibernate-core-6-4-4-final-sources-
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* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/persister/internal/PersisterClassResolverInitiator.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/dialect/DB2400V7R3Dialect.java
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/hibernate-core-6-4-4-final-sources-jar/org/hibernate/tuple/NonIdentifierAttribute.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/type/OneToOneType.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/property/access/spi/PropertyAccessStrategy.java
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Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/persistence_3_1.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/persistence_3_0.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/orm_3_0.xsd
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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>.
*/
/*
* 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-6-4-4-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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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.
*/
/**
 * 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)
 */
```

Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/cfg/ManagedBeanSettings.java
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```
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-->
```

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```
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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-6-4-4-final-sources-jar/org/hibernate/mapping/RootClass.java

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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

Found in path(s):
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*/
//     "5.3 in upgrading.  It will be removed in a later version."
```

Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/internal/log/DeprecationLogger.java
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*/
/*
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*/
```

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*/
```

// public DomainResult createDomainResult(

Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
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Found in path(s):
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/orm_2_2.xsd
* /hibernate-core-6-4-4-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd

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1.825 metrics-json 4.2.25

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.json
Build-Jdk-Spec: 17
Bundle-Description: A set of Jackson modules which provide serializers
 for most Metrics classes.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Jackson Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.json
Bundle-Version: 4.2.25
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics,
com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4
.2.25"
Implementation-Title: Jackson Integration for Metrics
Implementation-Version: 4.2.25
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.me
trics.health;version="[4.2,5)";resolution:=optional,com.fasterxml.jac
kson.core;version="[2.12,3)",com.fasterxml.jackson.databind;version="
[2.12,3)",com.fasterxml.jackson.databind.module;version="[2.12,3)",co
 m.fasterxml.jackson.databind.ser;version="[2.12,3)",com.fasterxml.jac
kson.databind.ser.std;version="[2.12,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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1.826 commons-compress 1.26.1

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1.827 error_prone_annotations 2.26.1

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* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/Modifier.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/InlineMe.java
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* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/Immutable.java
* /error-prone-annotations-2-26-1-sources-jar/module-info.java
*
 /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
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* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/FormatString.java
* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/RestrictedApi.java

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* /error-prone-annotations-2-26-1-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

1.828 guava 33.1.0-jre

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1.831 importlib_resources 6.4.0

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1.833 jaxb-core 4.0.5

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1.836 accessors-smart 2.5.1

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* /accessors-smart-2-5-1-sources-jar/net/minidev/asm/ASMUtil.java
* /accessors-smart-2-5-1-sources-jar/net/minidev/asm/DynamicClassLoader.java
* /accessors-smart-2-5-1-sources-jar/net/minidev/asm/Accessor.java
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1.837 json-smart 2.5.1

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* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserReader.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONArray.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserString.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/FakeMapper.java
*
 /json-smart-2-5-1-sources-jar/net/minidev/json/JSONStyle.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONUtil.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserMemory.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserStream.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONStreamAwareEx.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONAwareEx.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserBase.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/CompessorMapper.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JStylerObj.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/ParseException.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/BeansMapper.java
*
 /json-smart-2-5-1-sources-jar/net/minidev/json/JSONAware.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/JsonReader.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONObject.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONValue.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/CollectionMapper.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONNavi.java
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1.838 jsch 0.2.15

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1.839 httpcomponents-client 5.2.3

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- web-common_3_0.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
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1.844 distro 1.8.0

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1.847 pyasn1 0.6.0

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE:
The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
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* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology.
Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
         'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions
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BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
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1.850 grpc-protobuf 1.63.0

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1.851 grpc-stub 1.63.0

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1.852 jaraco.context 5.3.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Main Author
---
Marti Maria

Contributors
---
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Kai-Uwe Behrmann
Stuart Nixon
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Richard Hughes
Auke Nauta
Chris Evans (Google)
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Robin Watts (Artifex)
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Behdad Esfahbod
```

David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
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****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/wglxext.h :

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*   _   _ ____ _
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# This Perl script creates a fresh ca-bundle.crt file for use with libcurl.
# It downloads certdata.txt from Mozilla's source tree (see URL below),
# then parses certdata.txt and extracts CA Root Certificates into PEM format.
# These are then processed with the OpenSSL commandline tool to produce the
# final ca-bundle.crt file.
# The script is based on the parse-certs script written by Roland Krikava.
# This Perl script works on almost any platform since its only external
# dependency is the OpenSSL commandline tool for optional text listing.
# Hacked by Guenter Knauf.
#
use Encode;
use Getopt::Std;
use MIME::Base64;
use strict;
use warnings;
use vars qw($opt_b $opt_d $opt_f $opt_h $opt_i $opt_k $opt_l $opt_m $opt_n $opt_p $opt_q $opt_s $opt_t $opt_u
$opt_v $opt_w);
use List::Util;
use Text::Wrap;
use Time::Local;
my $MOD_SHA = "Digest::SHA";
eval "require
 $MOD_SHA";
if ($@) {
 $MOD_SHA = "Digest::SHA::PurePerl";
 eval "require $MOD_SHA";
}
eval "require LWP::UserAgent";

my %urls = (
 'nss' =>
   'https://hg.mozilla.org/projects/nss/raw-file/default/lib/ckfw/builtins/certdata.txt',
 'central' =>
   'https://hg.mozilla.org/mozilla-central/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
 'beta' =>
   'https://hg.mozilla.org/releases/mozilla-beta/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
 'release' =>
   'https://hg.mozilla.org/releases/mozilla-release/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
);

$opt_d = 'release';

# If the OpenSSL commandline is not in search path you can configure it here!
my $openssl = 'openssl';
```

```
my $version = '1.27';

$opt_w = 76; # default base64 encoded lines length

# default cert types to include in the output (default is to include CAs which may issue SSL server certs)
my $default_mozilla_trust_purposes = "SERVER_AUTH";
my $default_mozilla_trust_levels
 = "TRUSTED_DELEGATOR";
$opt_p = $default_mozilla_trust_purposes . ":" . $default_mozilla_trust_levels;

my @valid_mozilla_trust_purposes = (
 "DIGITAL_SIGNATURE",
 "NON_REPUDIATION",
 "KEY_ENCIPHERMENT",
 "DATA_ENCIPHERMENT",
 "KEY_AGREEMENT",
 "KEY_CERT_SIGN",
 "CRL_SIGN",
 "SERVER_AUTH",
 "CLIENT_AUTH",
 "CODE_SIGNING",
 "EMAIL_PROTECTION",
 "IPSEC_END_SYSTEM",
 "IPSEC_TUNNEL",
 "IPSEC_USER",
 "TIME_STAMPING",
 "STEP_UP_APPROVED"
);

my @valid_mozilla_trust_levels = (
 "TRUSTED_DELEGATOR",    # CAs
 "NOT_TRUSTED",          # Don't trust these certs.
 "MUST_VERIFY_TRUST",    # This explicitly tells us that it ISN'T a CA but is otherwise ok. In other words, this
should tell the app to ignore any other sources that claim this is a CA.
 "TRUSTED"               # This cert is trusted, but only for itself and not for delegates (i.e. it is not a CA).
);

my $default_signature_algorithms = $opt_s = "MD5";

my @valid_signature_algorithms = (
 "MD5",
 "SHA1",
  "SHA256",
 "SHA384",
 "SHA512"
);
```

```
$0 =~ s@.*(/|\\)@@;
$Getopt::Std::STANDARD_HELP_VERSION = 1;
getopts('bd:fhiklmnp:qs:tuvw:');

if(!defined($opt_d)) {
  # to make plain "-d" use not cause warnings, and actually still work
  $opt_d = 'release';
}

# Use predefined URL or else custom URL specified on command line.
my $url;
if(defined($urls{$opt_d})) {
 $url = $urls{$opt_d};
 if(!$opt_k && $url !~ /^https:\/\//i) {
  die "The URL for '$opt_d' is not HTTPS. Use -k to override (insecure).\n";
 }
}
else {
 $url = $opt_d;
}

my $curl = `curl -V`;

if ($opt_i) {
 print ("=" x 78 . "\n");
 print "Script Version                 : $version\n";
 print "Perl Version                   : $]\n";
 print "Operating System Name          : $^O\n";
 print "Getopt::Std.pm Version         : ${Getopt::Std::VERSION}\n";
 print "Encode::Encoding.pm Version    : ${Encode::Encoding::VERSION}\n";
 print "MIME::Base64.pm Version        : ${MIME::Base64::VERSION}\n";
 print "LWP::UserAgent.pm
 Version       : ${LWP::UserAgent::VERSION}\n" if($LWP::UserAgent::VERSION);
 print "LWP.pm Version                 : ${LWP::VERSION}\n" if($LWP::VERSION);
 print "Digest::SHA.pm Version         : ${Digest::SHA::VERSION}\n" if ($Digest::SHA::VERSION);
 print "Digest::SHA::PurePerl.pm Version : ${Digest::SHA::PurePerl::VERSION}\n" if
($Digest::SHA::PurePerl::VERSION);
 print ("=" x 78 . "\n");
}

sub warning_message() {
 if ( $opt_d =~ m/^risk$/i ) { # Long Form Warning and Exit
  print "Warning: Use of this script may pose some risk:\n";
  print "\n";
  print "  1) If you use HTTP URLs they are subject to a man in the middle attack\n";
  print "  2) Default to 'release', but more recent updates may be found in other trees\n";
  print "  3) certdata.txt file format may change, lag time to update this script\n";
  print "  4) Generally unwise to blindly trust CAs without manual review & verification\n";
```

```
  print "  5) Mozilla apps use additional security
 checks aren't represented in certdata\n";
  print "  6) Use of this script will make a security engineer grind his teeth and\n";
  print "     swear at you.  ;)\n";
  exit;
 } else { # Short Form Warning
  print "Warning: Use of this script may pose some risk, -d risk for more details.\n";
 }
}

sub HELP_MESSAGE() {
 print "Usage:\t${0} [-b] [-d<certdata>] [-f] [-i] [-k] [-l] [-n] [-p<purposes:levels>] [-q] [-s<algorithms>] [-t] [-u] [-
v] [-w<l>] [<outputfile>]\n";
 print "\t-b\tbackup an existing version of ca-bundle.crt\n";
 print "\t-d\tspecify Mozilla tree to pull certdata.txt or custom URL\n";
 print "\t\t  Valid names are:\n";
 print "\t\t    ", join( ", ", map { ( $_ =~ m/$opt_d/ ) ? "$_ (default)" : "$_" } sort keys %urls ), "\n";
 print "\t-f\tforce rebuild even if certdata.txt is current\n";
 print "\t-i\tprint version info about used modules\n";
 print "\t-k\tallow URLs other than HTTPS, enable HTTP fallback (insecure)\n";
 print "\t-l\tprint license info
 about certdata.txt\n";
 print "\t-m\tinclude meta data in output\n";
 print "\t-n\tno download of certdata.txt (to use existing)\n";
 print wrap("\t","\t\t", "-p\tlist of Mozilla trust purposes and levels for certificates to include in output. Takes the
form of a comma separated list of purposes, a colon, and a comma separated list of levels. (default:
$default_mozilla_trust_purposes:$default_mozilla_trust_levels)"), "\n";
 print "\t\t  Valid purposes are:\n";
 print wrap("\t\t    ","\t\t    ", join( ", ", "ALL", @valid_mozilla_trust_purposes ) ), "\n";
 print "\t\t  Valid levels are:\n";
 print wrap("\t\t    ","\t\t    ", join( ", ", "ALL", @valid_mozilla_trust_levels ) ), "\n";
 print "\t-q\tbe really quiet (no progress output at all)\n";
 print wrap("\t","\t\t", "-s\tcomma separated list of certificate signatures/hashes to output in plain text mode. (default:
$default_signature_algorithms)\n");
 print "\t\t  Valid signature algorithms are:\n";
 print wrap("\t\t    ","\t\t
    ", join( ", ", "ALL", @valid_signature_algorithms ) ), "\n";
 print "\t-t\tinclude plain text listing of certificates\n";
 print "\t-u\tunlink (remove) certdata.txt after processing\n";
 print "\t-v\tbe verbose and print out processed CAs\n";
 print "\t-w <l>\twrap base64 output lines after <l> chars (default: ${opt_w})\n";
 exit;
}

sub VERSION_MESSAGE() {
 print "${0} version ${version} running Perl ${]} on ${^O}\n";
}
```

```
warning_message() unless ($opt_q || $url =~ m/^(ht|f)tps:/i );
HELP_MESSAGE() if ($opt_h);

sub report($@) {
 my $output = shift;

 print STDERR $output . "\n" unless $opt_q;
}

sub is_in_list($@) {
 my $target = shift;

 return defined(List::Util::first { $target eq $_ } @_);
}

# Parses $param_string as a case insensitive comma separated list with optional whitespace
# validates that only allowed parameters are supplied
sub parse_csv_param($$@) {
 my $description = shift;
 my $param_string = shift;
 my @valid_values = @_;

 my @values = map {
    s/^\s+//;  # strip leading spaces
   s/\s+$//;  # strip trailing spaces
   uc $_      # return the modified string as upper case
 } split( ',', $param_string );

 # Find all values which are not in the list of valid values or "ALL"
 my @invalid = grep { !is_in_list($_,"ALL",@valid_values) } @values;

 if ( scalar(@invalid) > 0 ) {
   # Tell the user which parameters were invalid and print the standard help message which will exit
   print "Error: Invalid ", $description, scalar(@invalid) == 1 ? ": " : "s: ", join( ", ", map { "\"$_\"" } @invalid ),
"\n";
   HELP_MESSAGE();
 }

 @values = @valid_values if ( is_in_list("ALL",@values) );

 return @values;
}

sub sha256 {
 my $result;
 if ($Digest::SHA::VERSION || $Digest::SHA::PurePerl::VERSION) {
   open(FILE, $_[0]) or die "Can't open '$_[0]': $!";
   binmode(FILE);
```

```
  $result = $MOD_SHA->new(256)->addfile(*FILE)->hexdigest;
  close(FILE);
 } else {
  # Use OpenSSL command if Perl Digest::SHA modules not available
   $result = `"$openssl" dgst -r -sha256 "$_[0]"`;
  $result =~ s/^([0-9a-f]{64}) .+/$1/is;
 }
 return $result;
}


sub oldhash {
 my $hash = "";
 open(C, "<$_[0]") || return 0;
 while(<C>) {
  chomp;
  if($_ =~ /^\#\# SHA256: (.*)/) {
   $hash = $1;
   last;
  }
 }
 close(C);
 return $hash;
}

if ( $opt_p !~ m/:/ ) {
 print "Error: Mozilla trust identifier list must include both purposes and levels\n";
 HELP_MESSAGE();
}

(my $included_mozilla_trust_purposes_string, my $included_mozilla_trust_levels_string) = split( ':', $opt_p );
my @included_mozilla_trust_purposes = parse_csv_param( "trust purpose",
$included_mozilla_trust_purposes_string, @valid_mozilla_trust_purposes );
my @included_mozilla_trust_levels = parse_csv_param( "trust level", $included_mozilla_trust_levels_string,
@valid_mozilla_trust_levels );

my @included_signature_algorithms = parse_csv_param( "signature algorithm", $opt_s,
@valid_signature_algorithms );

sub should_output_cert(%) {
 my
 %trust_purposes_by_level = @_;

 foreach my $level (@included_mozilla_trust_levels) {
  # for each level we want to output, see if any of our desired purposes are included
  return 1 if ( defined( List::Util::first { is_in_list( $_, @included_mozilla_trust_purposes ) }
@{$trust_purposes_by_level{$level}} ) );
 }
```

```
 return 0;
}

my $crt = $ARGV[0] || 'ca-bundle.crt';
(my $txt = $url) =~ s@(.*/|\?.*)@@g;

my $stdout = $crt eq '-';
my $resp;
my $fetched;

my $oldhash = oldhash($crt);

report "SHA256 of old file: $oldhash";

if(!$opt_n) {
 report "Downloading $txt ...";

 # If we have an HTTPS URL then use curl
 if($url =~ /^https:\/\//i) {
  if($curl) {
    if($curl =~ /^Protocols:.* https( |$)/m) {
      report "Get certdata with curl!";
      my $proto = !$opt_k ? "--proto =https" : "";
      my $quiet = $opt_q ? "-s" : "";
      my @out = `curl -w %{response_code} $proto $quiet -o "$txt" "$url"`;
      if(!$? && @out && $out[0] == 200) {
        $fetched = 1;
         report "Downloaded $txt";
      }
      else {
        report "Failed downloading via HTTPS with curl";
        if(-e $txt && !unlink($txt)) {
          report "Failed to remove '$txt': $!";
        }
      }
    }
    else {
      report "curl lacks https support";
    }
  }
  else {
    report "curl not found";
  }
 }

 # If nothing was fetched then use LWP
 if(!$fetched) {
```

```
  if($url =~ /^https:\/\/i) {
    report "Falling back to HTTP";
    $url =~ s/^https:\/\/http:\/\/i;
  }
  if(!$opt_k) {
    report "URLs other than HTTPS are disabled by default, to enable use -k";
    exit 1;
  }
  report "Get certdata with LWP!";
  if(!defined(${LWP::UserAgent::VERSION})) {
    report "LWP is not available (LWP::UserAgent not found)";
    exit 1;
  }
  my $ua  = new LWP::UserAgent(agent => "$0/$version");
  $ua->env_proxy();
  $resp = $ua->mirror($url, $txt);
  if($resp && $resp->code eq '304') {
    report "Not modified";
     exit 0 if -e $crt && !$opt_f;
  }
  else {
    $fetched = 1;
    report "Downloaded $txt";
  }
  if(!$resp || $resp->code !~ /^(?:200|304)$/) {
    report "Unable to download latest data: "
      . ($resp? $resp->code . ' - ' . $resp->message : "LWP failed");
    exit 1 if -e $crt || ! -r $txt;
  }
 }
}

my $filedate = $resp ? $resp->last_modified : (stat($txt))[9];
my $datesrc = "as of";
if(!$filedate) {
  # mxr.mozilla.org gave us a time, hg.mozilla.org does not!
  $filedate = time();
  $datesrc="downloaded on";
}

# get the hash from the download file
my $newhash= sha256($txt);

if(!$opt_f && $oldhash eq $newhash) {
  report "Downloaded file identical to previous run\'s source file. Exiting";
  if($opt_u && -e $txt && !unlink($txt)) {
     report "Failed to remove $txt: $!\n";
  }
```

```
  exit;
}

report "SHA256 of new file: $newhash";

my $currentdate = scalar gmtime($filedate);

my $format = $opt_t ? "plain text and " : "";
if( $stdout
 ) {
  open(CRT, '> -') or die "Couldn't open STDOUT: $!\n";
} else {
  open(CRT,">$crt.~") or die "Couldn't open $crt.~: $!\n";
}
print CRT <<EOT;
##
## Bundle of CA Root Certificates
##
## Certificate data from Mozilla ${datesrc}: ${currentdate} GMT
##
## This is a bundle of X.509 certificates of public Certificate Authorities
## (CA). These were automatically extracted from Mozilla's root certificates
## file (certdata.txt).  This file can be found in the mozilla source tree:
## ${url}
##
## It contains the certificates in ${format}PEM format and therefore
## can be directly used with curl / libcurl / php_curl, or with
## an Apache+mod_ssl webserver for SSL client authentication.
## Just configure this file as the SSLCACertificateFile.
##
## Conversion done with mk-ca-bundle.pl version $version.
## SHA256: $newhash
##

EOT

report "Processing  '$txt' ...";
my $caname;
my $certnum = 0;
my $skipnum = 0;
my $start_of_cert = 0;
my @precert;
my $cka_value;
my $valid = 1;

open(TXT,"$txt")
 or die "Couldn't open $txt: $!\n";
while (<TXT>) {
```

```
 if (/\*\*\*\*\* BEGIN LICENSE BLOCK \*\*\*\*\*/) {
   print CRT;
   print if ($opt_l);
   while (<TXT>) {
     print CRT;
     print if ($opt_l);
     last if (/\*\*\*\*\* END LICENSE BLOCK \*\*\*\*\*/);
   }
 }
 elsif(/^# (Issuer|Serial Number|Subject|Not Valid Before|Not Valid After |Fingerprint \(MD5\)|Fingerprint
\(SHA1\)):/) {
     push @precert, $_;
     $valid = 1;
     next;
 }
 elsif(/^#|^\s*$/) {
     undef @precert;
     next;
 }
 chomp;

 # Example:
 # CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
 # \062\060\060\066\061\067\060\060\060\060\060\060\132
 # END

 if (/^CKA_NSS_SERVER_DISTRUST_AFTER (CK_BBOOL CK_FALSE|MULTILINE_OCTAL)/) {
     if($1 eq "MULTILINE_OCTAL") {
         my @timestamp;
         while (<TXT>) {
             last if (/^END/);
             chomp;
             my @octets = split(/\\/);
             shift @octets;
             for (@octets) {
                 push
 @timestamp, chr(oct);
             }
         }
         # A trailing Z in the timestamp signifies UTC
         if($timestamp[12] ne "Z") {
             report "distrust date stamp is not using UTC";
         }
         # Example date: 200617000000Z
         # Means 2020-06-17 00:00:00 UTC
         my $distrustat =
           timegm($timestamp[10] . $timestamp[11], # second
                  $timestamp[8] . $timestamp[9],   # minute
```

```
                $timestamp[6] . $timestamp[7],   # hour
                $timestamp[4] . $timestamp[5],   # day
                ($timestamp[2] . $timestamp[3]) - 1, # month
                "20" . $timestamp[0] . $timestamp[1]); # year
        if(time >= $distrustat) {
          # not trusted anymore
          $skipnum++;
          report "Skipping: $caname is not trusted anymore" if ($opt_v);
          $valid = 0;
        }
        else {
          # still trusted
        }
    }
    next;
}

# this
is a match for the start of a certificate
if (/^CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE/) {
  $start_of_cert = 1
}
if ($start_of_cert && /^CKA_LABEL UTF8 \"(.*)\"/) {
  $caname = $1;
}
my %trust_purposes_by_level;
if ($start_of_cert && /^CKA_VALUE MULTILINE_OCTAL/) {
  $cka_value="";
  while (<TXT>) {
    last if (/^END/);
    chomp;
    my @octets = split(/\\/);
    shift @octets;
    for (@octets) {
      $cka_value .= chr(oct);
    }
  }
}
if(/^CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST/ && $valid) {
  # now scan the trust part to determine how we should trust this cert
  while (<TXT>) {
    last if (/^#/);
    if (/^CKA_TRUST_([A-Z_]+)\s+CK_TRUST\s+CKT_NSS_([A-Z_]+)\s*$/) {
      if ( !is_in_list($1,@valid_mozilla_trust_purposes) ) {
        report "Warning: Unrecognized trust purpose for cert: $caname. Trust purpose: $1. Trust Level: $2";
      } elsif ( !is_in_list($2,@valid_mozilla_trust_levels) ) {
        report "Warning:
```

```
Unrecognized trust level for cert: $caname. Trust purpose: $1. Trust Level: $2";
      } else {
        push @{$trust_purposes_by_level{$2}}, $1;
      }
    }
  }

  if ( !should_output_cert(%trust_purposes_by_level) ) {
    $skipnum ++;
    report "Skipping: $caname" if ($opt_v);
  } else {
    my $data = $cka_value;
    $cka_value = "";
    my $encoded = MIME::Base64::encode_base64($data, '');
    $encoded =~ s/(.{1,${opt_w}})/$1\n/g;
    my $pem = "-----BEGIN CERTIFICATE-----\n"
            . $encoded
            . "-----END CERTIFICATE-----\n";
    print CRT "\n$caname\n";
    print CRT @precert if($opt_m);
    my $maxStringLength = length(decode('UTF-8', $caname, Encode::FB_CROAK | Encode::LEAVE_SRC));
    if ($opt_t) {
      foreach my $key (keys %trust_purposes_by_level) {
        my $string = $key . ": " . join(", ", @{$trust_purposes_by_level{$key}});
        $maxStringLength = List::Util::max( length($string), $maxStringLength
);
        print CRT $string . "\n";
      }
    }
    print CRT ("=" x $maxStringLength . "\n");
    if (!$opt_t) {
      print CRT $pem;
    } else {
      my $pipe = "";
      foreach my $hash (@included_signature_algorithms) {
        $pipe = "|$openssl x509 -" . $hash . " -fingerprint -noout -inform PEM";
        if (!$stdout) {
          $pipe .= " >> $crt.~";
          close(CRT) or die "Couldn't close $crt.~: $!";
        }
        open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
        print TMP $pem;
        close(TMP) or die "Couldn't close openssl pipe: $!";
        if (!$stdout) {
          open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
        }
      }
      $pipe = "|$openssl x509 -text -inform PEM";
```

```
      if (!$stdout) {
        $pipe .= " >> $crt.~";
        close(CRT) or die "Couldn't close $crt.~: $!";
      }
      open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
      print TMP
 $pem;
      close(TMP) or die "Couldn't close openssl pipe: $!";
      if (!$stdout) {
        open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
      }
    }
    report "Parsing: $caname" if ($opt_v);
    $certnum ++;
    $start_of_cert = 0;
  }
  undef @precert;
 }

}
close(TXT) or die "Couldn't close $txt: $!\n";
close(CRT) or die "Couldn't close $crt.~: $!\n";
unless( $stdout ) {
  if ($opt_b && -e $crt) {
      my $bk = 1;
      while (-e "$crt.~${bk}~") {
          $bk++;
      }
      rename $crt, "$crt.~${bk}~" or die "Failed to create backup $crt.~$bk}~: $!\n";
  } elsif( -e $crt ) {
      unlink( $crt ) or die "Failed to remove $crt: $!\n";
  }
  rename "$crt.~", $crt or die "Failed to rename $crt.~ to $crt: $!\n";
}
if($opt_u && -e $txt && !unlink($txt)) {
 report "Failed to remove $txt: $!\n";
}
report "Done ($certnum CA certs processed, $skipnum skipped).";
```

Found in path(s):
* /ca-certificates-bundle-20230506-r0-os-alpine-3-18-0-tar-xz/ca-certificates-20230506-tar-bz2/ca-certificates-20230506/mk-ca-bundle.pl

1.864 slf4j 2.0.13

1.864.1 Available under license :

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

```
<!--
! CDDL HEADER START
!
! The contents of this file are subject to the terms of the
! Common Development and Distribution License, Version 1.0 only
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!
! You can obtain a copy of the license at legal/CDDLv1_0.txt or
! http://forgerock.org/license/CDDLv1.0.html.
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! When distributing Covered Code, include this CDDL HEADER in each
! file and include the License file at legal/CDDLv1_0.txt.  If applicable,
! add the following below this CDDL HEADER, with the fields enclosed
! by brackets "[]" replaced with your own identifying information:
!      Portions Copyright [yyyy] [name of copyright owner]
!
! CDDL HEADER END
!
!      Copyright 2011 ForgeRock AS
!
-->
```

Found in path(s):
* /slf4j-2-0-13-sources-jar/META-INF/maven/org.openidentityplatform.commons.i18n-framework/slf4j/pom.xml

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

```
/*
* The contents of this file are subject to the terms of the Common Development and
* Distribution License (the License). You may not use this file except in compliance with the
* License.
*
* You can obtain a copy of the License at legal/CDDLv1.0.txt. See the License for the
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* When distributing Covered Software, include this CDDL Header Notice in each file and include
* the License file at legal/CDDLv1.0.txt. If applicable, add the following below the CDDL
* Header, with the fields enclosed by brackets [] replaced by your own identifying
* information: "Portions Copyrighted [year] [name of copyright owner]".
*
*      Copyright 2011 ForgeRock AS
*/
```

Found in path(s):
* /slf4j-2-0-13-sources-jar/org/forgerock/i18n/slf4j/package-info.java
* /slf4j-2-0-13-sources-jar/org/forgerock/i18n/slf4j/LocalizedLoggerFactory.java
No license file was found, but licenses were detected in source scan.

```
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1.865 scanelf 1.3.7-r2

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* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/pathmap/ServletPathSpec.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/CookieCompliance.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/CookieCache.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/VirtualHttpContentFactory.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpCompliance.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/QuotedQualityCSV.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpException.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/compression/HuffmanDecoder.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/SetCookieParser.java
*
/jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpTester.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/ValidatingCachingHttpContentFactory.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/CookieCutter.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/pathmap/PathSpec.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/MetaData.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/compression/Huffman.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/FileMappingHttpContentFactory.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/Http11FieldPreEncoder.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/compression/NBitIntegerDecoder.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/compression/EncodingException.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/ComplianceViolation.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/BadMessageException.java
*
/jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpParser.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpMethod.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/GZIPContentDecoder.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/CachingHttpContentFactory.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpStatus.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/package-info.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/QuotedCSVParser.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/ImmutableHttpFields.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/ByteRange.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/QuotedCSV.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/Syntax.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/DateGenerator.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpVersion.java
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/jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/MultiPartByteRanges.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/compression/NBitIntegerEncoder.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/pathmap/PathSpecSet.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpCookieStore.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/HttpContent.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/EtagUtils.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/pathmap/PathMappings.java

* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/ResourceHttpContent.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpHeaderValue.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/content/PreCompressedHttpContent.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/HttpFields.java
* /jetty-http-12-0-8-sources-jar/org/eclipse/jetty/http/MultiPart.java

1.868 netty 4.1.109.Final

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.all
Built-By: norman
Bnd-LastModified: 1713172065946
Specification-Title: Netty/All-in-One
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Bundle-Name: Netty/All-in-One
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/All-in-One
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.all
Implementation-Version: 4.1.109.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: 4.1.109.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_402
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-all/

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1.869 netty-codec-socks 4.1.109.Final

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* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
*
 /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java

* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
*
/netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
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* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
*
/netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
*
/netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
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* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java

*
 /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /netty-codec-socks-4-1-109-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /netty-codec-socks-4-1-109-final-sources-
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*
 /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java
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* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
*
 /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /netty-codec-socks-4-1-109-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
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* /netty-codec-socks-4-1-109-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/package-info.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java
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* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /netty-codec-socks-4-1-109-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java
* /netty-codec-socks-4-1-109-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java

* /netty-codec-socks-4-1-109-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
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* /netty-codec-socks-4-1-109-final-sources-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

1.870 netty-handler 4.1.109.Final

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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
*

/netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
*
/netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
*
/netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/address/package-info.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/pcap/package-info.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/stream/package-info.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/package-info.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/traffic/package-info.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
*
 /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java

* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-109-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

1.871 netty-transport-native-unix-common 4.1.109.Final

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* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_buffer.h
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* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_socket.h
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_filedescriptor.h
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_socket.c
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/Errors.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_errors.h
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_filedescriptor.c
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/Unix.java
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* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java
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* /netty-transport-native-unix-common-4-1-109-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
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* /netty-transport-native-unix-common-4-1-109-final-sources-jar/netty_unix_util.h
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelConfig.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelFutureListener.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ServerChannel.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/nio/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/EventLoopGroup.java

* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelException.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/CombinedIterator.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelFactory.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/FailedChannel.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
*
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
*
* {@link
 ChannelInboundHandler} to handle inbound I/O events, and
* {@link ChannelOutboundHandler} to handle outbound I/O operations.
*
*
*
* Alternatively, the following adapter classes are provided for your convenience:

```
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
```

```
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
```

```
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/

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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelId.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
*
 /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /netty-transport-4-1-109-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
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/netty-transport-4-1-109-final-sources-jar/io/netty/channel/group/ChannelGroupException.java

1.873 netty-handler-proxy 4.1.109.Final

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* /netty-handler-proxy-4-1-109-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /netty-handler-proxy-4-1-109-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

*
/netty-handler-proxy-4-1-109-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /netty-handler-proxy-4-1-109-final-sources-jar/io/netty/handler/proxy/package-info.java
* /netty-handler-proxy-4-1-109-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
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1.874 netty-resolver 4.1.109.Final

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* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/HostsFileParser.java
*
 /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/AddressResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/InetNameResolver.java
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* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/NameResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
*
/netty-resolver-4-1-109-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
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1.875 netty-codec-http 4.1.109.Final

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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
*
 /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
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 /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /netty-codec-http-4-1-109-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
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* /netty-codec-http-4-1-109-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
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1.876 netty-resolver-dns 4.1.109.Final

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* /netty-resolver-dns-4-1-109-final-sources-jar/io/netty/resolver/dns/Cache.java
* /netty-resolver-dns-4-1-109-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
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* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
*
 /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
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* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
*
 /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
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* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
*
 /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
* /netty-codec-dns-4-1-109-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java

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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/CodecException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
*

/netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
*
/netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
*
/netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
*
/netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
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jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
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/netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java

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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
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```
*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
```

```
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
|  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
```

```
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
```

```
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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* <p>
 * The encoding and decoding algorithm in this class has been derived from
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* Base64 Encoder/Decoder.
*/

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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-109-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/SnappyOptions.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-109-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
*
 /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java

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* /netty-codec-4-1-109-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
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* /netty-transport-classes-epoll-4-1-109-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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 /netty-transport-classes-epoll-4-1-109-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
```

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* /netty-transport-classes-epoll-4-1-109-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

Found in path(s):
* /netty-transport-classes-epoll-4-1-109-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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xwd v1.0.7

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****

---
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include/GL/glxext.h
include/GL/wglxext.h :

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* /spring-context-6-1-6-sources-jar/org/springframework/context/aot/ApplicationContextAotGenerator.java
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* /spring-context-6-1-6-sources-jar/org/springframework/format/support/FormattingConversionServiceRuntimeHints.java
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* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
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* /spring-context-6-1-6-sources-jar/org/springframework/context/Phased.java
* /spring-context-6-1-6-sources-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-6-1-6-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-6-1-6-sources-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
*
 /spring-context-6-1-6-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-6-1-6-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
* /spring-context-6-1-6-sources-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /spring-context-6-1-6-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /spring-context-6-1-6-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
*
 /spring-context-6-1-6-sources-jar/org/springframework/jmx/JmxException.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/config/ContextNamespaceHandler.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java

* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-6-1-6-sources-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-6-1-6-sources-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
*
 /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/event/ContextStartedEvent.java
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* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/Formatter.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/HierarchicalMessageSource.java
* /spring-context-6-1-6-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /spring-context-6-1-6-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
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* /spring-context-6-1-6-sources-jar/org/springframework/cache/CacheExtensions.kt
*
 /spring-context-6-1-6-sources-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-6-1-6-sources-
jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java

* /spring-context-6-1-6-sources-jar/org/springframework/cache/config/CacheAdviceParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/expression/MapAccessor.java
* /spring-context-6-1-6-sources-jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
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 /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
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 /spring-context-6-1-6-sources-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/CacheManagerExtensions.kt
* /spring-context-6-1-6-sources-jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterUtils.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/annotation/EnableAsync.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
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 /spring-context-6-1-6-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /spring-context-6-1-6-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /spring-context-6-1-6-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/annotation/DateTimeFormat.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
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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-6-1-6-sources-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
*
 /spring-context-6-1-6-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-6-1-6-sources-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /spring-context-6-1-6-sources-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/support/CompositeCacheManager.java
* /spring-context-6-1-6-sources-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
*
 /spring-context-6-1-6-sources-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/Parser.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/Printer.java
* /spring-context-6-1-6-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
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* limitations under the License.
*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.

```
*
* <p>A <em>condition</em> 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:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <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><strong>NOTE</strong>: 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 <em>composed annotation</em> 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-6-1-6-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
*
 /spring-context-6-1-6-sources-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ImportSelector.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-6-1-6-sources-
jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
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* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
*
 /spring-context-6-1-6-sources-jar/org/springframework/context/ApplicationStartupAware.java
* /spring-context-6-1-6-sources-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-6-1-6-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java

* /spring-context-6-1-6-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /spring-context-6-1-6-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-6-1-6-sources-jar/org/springframework/validation/MapBindingResult.java
* /spring-context-6-1-6-sources-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/ConditionContext.java
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* /spring-context-6-1-6-sources-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
*
 /spring-context-6-1-6-sources-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/annotation/PropertySources.java
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*
/spring-context-6-1-6-sources-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-6-1-6-sources-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /spring-context-6-1-6-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpDivide.java
*

/spring-expression-6-1-6-sources-jar/org/springframework/expression/ExpressionException.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpModulus.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/standard/SpelExpression.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/common/CompositeStringExpression.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/MethodReference.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/TypeReference.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/InlineList.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/MethodExecutor.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpInc.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/InlineMap.java
*

/spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/SpelMessage.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/Projection.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/Selection.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/TypeCode.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/FunctionReference.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/ConstructorResolver.java
* /spring-expression-6-1-6-sources-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/TypedValue.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/VariableReference.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/Expression.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/standard/Tokenizer.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/IntLiteral.java
*
 /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpEQ.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/FloatLiteral.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/Identifier.java
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jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/TypeLocator.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/support/StandardTypeLocator.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ExpressionState.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/Assign.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpPlus.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OperatorPower.java
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/spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/OpLT.java
* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
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* /spring-expression-6-1-6-sources-jar/org/springframework/expression/spel/ast/BeanReference.java
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1.886 micrometer-observation 1.12.5

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* /micrometer-observation-1-12-5-sources-jar/io/micrometer/observation/transport/ResponseContext.java
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jar/io/micrometer/observation/aop/ObservedAspectObservationDocumentation.java
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* /micrometer-observation-1-12-5-sources-jar/io/micrometer/observation/NoopObservation.java
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jar/io/micrometer/observation/transport/RequestReplyReceiverContext.java
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jar/io/micrometer/observation/transport/RequestReplySenderContext.java
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1.887 spring-aop 6.1.6

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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/ProxyConfig.java
* /spring-aop-6-1-6-sources-jar/org/aopalliance/intercept/Joinpoint.java
*
 /spring-aop-6-1-6-sources-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/DynamicIntroductionAdvice.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
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jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
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jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
*
 /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /spring-aop-6-1-6-sources-
jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/ExpressionPointcut.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/CoroutinesUtils.java
*
 /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/CglibAopProxy.java
* /spring-aop-6-1-6-sources-
jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/ControlFlowPointcut.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/AdvisedSupport.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
*
 /spring-aop-6-1-6-sources-jar/org/aopalliance/intercept/Invocation.java
* /spring-aop-6-1-6-sources-jar/org/aopalliance/intercept/MethodInvocation.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/TruePointcut.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/DynamicMethodMatcher.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /spring-aop-6-1-6-sources-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /spring-aop-6-1-6-sources-jar/org/aopalliance/aop/AspectException.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/ProxyProcessorSupport.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/config/AopNamespaceUtils.java
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 /spring-aop-6-1-6-sources-jar/org/aopalliance/intercept/MethodInterceptor.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/HotSwappableTargetSource.java
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 /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/EmptyTargetSource.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/ClassFilter.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/scope/ScopedProxyBeanRegistrationAotProcessor.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
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*
 /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/PoolingConfig.java
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* /spring-aop-6-1-6-sources-jar/org/springframework/aop/AopInvocationException.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/target/dynamic/Refreshable.java
* /spring-aop-6-1-6-sources-jar/org/springframework/aop/IntroductionInfo.java
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* /spring-web-6-1-6-sources-jar/org/springframework/web/cors/reactive/CorsWebFilter.java

* /spring-web-6-1-6-sources-jar/org/springframework/web/client/HttpClientErrorException.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
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jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
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* /spring-web-6-1-6-sources-jar/org/springframework/web/context/request/RequestScope.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/request/SessionScope.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/cors/reactive/CorsConfigurationSource.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/WebApplicationContext.java
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* /spring-web-6-1-6-sources-jar/org/springframework/web/server/session/WebSessionManager.java
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* /spring-web-6-1-6-sources-jar/org/springframework/web/server/WebExceptionHandler.java
*
 /spring-web-6-1-6-sources-jar/org/springframework/http/ReactiveHttpOutputMessage.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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jar/org/springframework/web/method/annotation/RequestParamMapMethodArgumentResolver.java
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 /spring-web-6-1-6-sources-jar/org/springframework/web/client/RestClientException.java
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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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 /spring-web-6-1-6-sources-jar/org/springframework/http/codec/HttpMessageEncoder.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/LoggingCodecSupport.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/SslInfo.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/server/handler/FilteringWebHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/CodecConfigurerFactory.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/converter/HttpMessageNotReadableException.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/annotation/ResponseBody.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/client/ResponseExtractor.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/support/GroovyWebApplicationContext.java
*
 /spring-web-6-1-6-sources-jar/org/springframework/web/bind/annotation/RequestHeader.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/accept/ParameterContentNegotiationStrategy.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/cors/CorsProcessor.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/server/WebSession.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/ServletConfigAware.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/client/BufferingClientHttpRequestFactory.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/InvalidMediaTypeException.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/annotation/RequestBody.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/ServletContextAware.java
*
 /spring-web-6-1-6-sources-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/HttpMessageDecoder.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/support/XmlWebApplicationContext.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/method/annotation/ErrorsMethodArgumentResolver.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/HttpLogging.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/ContextPathCompositeHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /spring-web-6-1-6-sources-
jar/org/springframework/web/method/annotation/ExpressionValueMethodArgumentResolver.java
*
 /spring-web-6-1-6-sources-jar/org/springframework/http/HttpInputMessage.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/client/ResponseErrorHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/server/DefaultServerWebExchangeBuilder.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/ZeroCopyHttpOutputMessage.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/filter/CharacterEncodingFilter.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/util/UriTemplateHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/annotation/MatrixVariable.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/method/annotation/InitBinderDataBinderFactory.java

* /spring-web-6-1-6-sources-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
*
/spring-web-6-1-6-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/HttpHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/HttpOutputMessage.java
No license file was found, but licenses were detected in source scan.

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/support/SessionStatus.java
No license file was found, but licenses were detected in source scan.

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
application/andrew-inset ez
application/applefile
application/applixware aw
application/atf
application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
application/atomdeleted+xml
application/atomicmail
application/atomsvc+xml atomsvc
application/atxml
application/auth-policy+xml
application/bacnet-xdd+zip
application/batch-smtp
application/beep+xml
application/calendar+json
application/calendar+xml
#
application/call-completion
application/cals-1840
application/cbor
application/ccmp+xml
application/ccxml+xml ccxml
application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmiq
application/cdni
application/cea
application/cea-2018+xml

```
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrp+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+json
application/cu-seeme    cu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml    davmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml    dbk
#
 application/dskpp+xml
application/dssc+der    dssc
application/dssc+xml    xdssc
# application/dvcs
application/ecmascript    ecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml    emma
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip    epub
# application/eshop
# application/example
```

application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-sfnt
application/font-tdpfr pfr
application/font-woff woff
application/framework-attributes+xml
application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip
#
application/h224
application/held+xml
application/http
application/hyperstudio stk
application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
application/im-iscomposing+xml
application/index
application/index.cmd
application/index.obj
application/index.response
application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix
application/ipp
application/isup
application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/jose
application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json

```
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
#
 application/load-control+xml
application/lost+xml    lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40   hqx
application/mac-compactpro   cpt
# application/macwriteii
application/mads+xml    mads
application/marc    mrc
application/marcxml+xml    mrcx
application/mathematica    ma nb mb
application/mathml+xml    mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox    mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml  mscml
# application/merge-patch+json
application/metalink+xml   metalink
application/metalink4+xml   meta4
application/mets+xml    mets
#
 application/mf4
# application/mikey
application/mods+xml    mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
```

application/mp21 m21 mp21
application/mp4 mp4s
application/mpeg4-generic
application/mpeg4-iod
application/mpeg4-iod-xmt
application/mrb-consumer+xml
application/mrb-publish+xml
application/msc-ivr+xml
application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
application/nasdata
application/news-checkgroups
application/news-groupinfo
application/news-transmission
application/nlsml+xml
application/nss
application/ocsp-request
application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc
onetoc2 onetmp onepkg
application/oxps oxps
application/p2p-overlay+xml
application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf
application/pdx
application/pgp-encrypted pgp
application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
application/pidf+xml
application/pidf-diff+xml
application/pkcs10 p10
application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath

application/pkixcmp pki
application/pls+xml pls
application/poc-settings+xml
application/postscript ai eps ps
application/ppsp-tracker+json
application/problem+json
application/problem+xml
application/provenance+xml
application/prs.alvestrand.titrax-sheet
application/prs.cww cww
application/prs.hpub+zip
#
application/prs.nprend
application/prs.plucker
application/prs.rdf-xml-crypt
application/prs.xsf+xml
application/pskc+xml pskcxml
application/qsig
application/raptorfec
application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
application/remote-printing
application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
application/rfc+xml
application/riscos
application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
application/rpki-manifest mft
application/rpki-roa roa
application/rpki-updown
application/rsd+xml rsd
application/rss+xml rss
application/rtf rtf
application/rtploopback
application/rtx
application/samlassertion+xml
application/samlmetadata+xml
application/sbml+xml sbml
application/scaip+xml
application/scim+json
application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq

application/scvp-vp-response spp
application/sdp sdp
#
application/sep+xml
application/sep-exi
application/session-info
application/set-payment
application/set-payment-initiation setpay
application/set-registration
application/set-registration-initiation setreg
application/sgml
application/sgml-open-catalog
application/shf+xml shf
application/sieve
application/simple-filter+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smil+xml smi smil
application/smpte336m
application/soap+fastinfoset
application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
application/spirits-event+xml
application/sql
application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
application/tamp-apex-update
application/tamp-apex-update-confirm
application/tamp-community-update
#
application/tamp-community-update-confirm
application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
application/timestamp-query
application/timestamp-reply

application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml
application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
application/vcard+json
application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb
#
application/vnd.3gpp.sms
application/vnd.3gpp.sms+xml
application/vnd.3gpp.srvcc-ext+xml
application/vnd.3gpp.srvcc-info+xml
application/vnd.3gpp.state-and-event-info+xml
application/vnd.3gpp.ussd+xml
application/vnd.3gpp2.bcmcsinfo+xml
application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap tcap
application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes pwn
application/vnd.accpac.simply.aso aso
application/vnd.accpac.simply.imp imp
application/vnd.acucobol acu
application/vnd.acucorp atc acutc
application/vnd.adobe.air-application-installer-package+zip air
application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt fcdt
application/vnd.adobe.fxp fxp fxpl
application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
application/vnd.aether.imp
application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs

application/vnd.amazon.ebook azw
#
application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc acc
application/vnd.amiga.ami ami
application/vnd.amundsen.maze+xml
application/vnd.android.package-archive apk
application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
application/vnd.apache.thrift.binary
application/vnd.apache.thrift.compact
application/vnd.apache.thrift.json
application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
application/vnd.autopackage
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr
#
application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
application/vnd.cab-jscript
application/vnd.canon-cpdl
application/vnd.canon-lips
application/vnd.cendio.thinlinc.clientconf
application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
application/vnd.cirpack.isdn-ext
application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u

application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
application/vnd.coffeescript
application/vnd.collection+json
application/vnd.collection.doc+json
application/vnd.collection.next+json
#
application/vnd.comicbook+zip
application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmsg
application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
application/vnd.ctct.ws+xml
application/vnd.cups-pdf
application/vnd.cups-postscript
application/vnd.cups-ppd ppd
application/vnd.cups-raster
application/vnd.cups-raw
application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
application/vnd.cyan.dean.root+xml
application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf
uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unspecified uvx uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
application/vnd.desmume.movie
application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dm.delegation+xml
application/vnd.dna dna
application/vnd.document+json
application/vnd.dolby.mlp mlp
application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.2

application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
application/vnd.drive+json
application/vnd.ds-keypoint kpxx
application/vnd.dtg.local
application/vnd.dtg.local.flash
application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer
application/vnd.dvb.ipdcdftnotifaccess
application/vnd.dvb.ipdcesgaccess
application/vnd.dvb.ipdcesgaccess2
application/vnd.dvb.ipdcesgpdd
application/vnd.dvb.ipdcroaming
#
application/vnd.dvb.iptv.alfec-base
application/vnd.dvb.iptv.alfec-enhancement
application/vnd.dvb.notif-aggregate-root+xml
application/vnd.dvb.notif-container+xml
application/vnd.dvb.notif-generic+xml
application/vnd.dvb.notif-ia-msglist+xml
application/vnd.dvb.notif-ia-registration-request+xml
application/vnd.dvb.notif-ia-registration-response+xml
application/vnd.dvb.notif-init+xml
application/vnd.dvb.pfr
application/vnd.dvb.service svc
application/vnd.dxr
application/vnd.dynageo geo
application/vnd.dzr
application/vnd.easykaraoke.cdgdownload
application/vnd.ecdis-update
application/vnd.ecowin.chart mag
application/vnd.ecowin.filerequest
application/vnd.ecowin.fileupdate
application/vnd.ecowin.series
application/vnd.ecowin.seriesrequest
application/vnd.ecowin.seriesupdate
application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
application/vnd.enphase.envoy
application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf

#
 application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml   es3 et3
application/vnd.etsi.aoc+xml
application/vnd.etsi.asic-e+zip
application/vnd.etsi.asic-s+zip
application/vnd.etsi.cug+xml
application/vnd.etsi.iptvcommand+xml
application/vnd.etsi.iptvdiscovery+xml
application/vnd.etsi.iptvprofile+xml
application/vnd.etsi.iptvsad-bc+xml
application/vnd.etsi.iptvsad-cod+xml
application/vnd.etsi.iptvsad-npvr+xml
application/vnd.etsi.iptvservice+xml
application/vnd.etsi.iptvsync+xml
application/vnd.etsi.iptvueprofile+xml
application/vnd.etsi.mcid+xml
application/vnd.etsi.mheg5
application/vnd.etsi.overload-control-policy-dataset+xml
application/vnd.etsi.pstn+xml
application/vnd.etsi.sci+xml
application/vnd.etsi.simservs+xml
application/vnd.etsi.timestamp-token
application/vnd.etsi.tsl+xml
application/vnd.etsi.tsl.der
#
 application/vnd.eudora.data
application/vnd.ezpix-album   ez2
application/vnd.ezpix-package   ez3
application/vnd.f-secure.mobile
application/vnd.fastcopy-disk-image
application/vnd.fdf   fdf
application/vnd.fdsn.mseed   mseed
application/vnd.fdsn.seed   seed dataless
application/vnd.ffsns
application/vnd.filmit.zfc
application/vnd.fints
application/vnd.firemonkeys.cloudcell
application/vnd.flographit   gph
application/vnd.fluxtime.clip   ftc
application/vnd.font-fontforge-sfd
application/vnd.framemaker   fm frame maker book
application/vnd.frogans.fnc   fnc
application/vnd.frogans.ltf   ltf
application/vnd.fsc.weblaunch   fsc
application/vnd.fujitsu.oasys   oas
application/vnd.fujitsu.oasys2   oa2
application/vnd.fujitsu.oasys3   oa3

application/vnd.fujitsu.oasysgp fg5
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application/vnd.medcalcdata   mc1
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application/vnd.mfmp    mfm
# application/vnd.micro+json
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# application/vnd.motorola.iprm
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# application/vnd.ms-asf
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# application/vnd.ms-color.iccprofile
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application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
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application/vnd.ms-wpl wpl
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application/vnd.noblenet-sealer   nns
application/vnd.noblenet-web   nnw
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# application/vnd.nokia.landmarkcollection+xml
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# application/vnd.osgi.bundle
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application/vnd.street-stream
application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc sxc
application/vnd.sun.xml.calc.template stc
application/vnd.sun.xml.draw sxd
application/vnd.sun.xml.draw.template std
application/vnd.sun.xml.impress sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math sxm
application/vnd.sun.xml.writer sxw
application/vnd.sun.xml.writer.global sxg
application/vnd.sun.xml.writer.template stw
application/vnd.sus-calendar sus
susp
application/vnd.svd svd
application/vnd.swiftview-ics
application/vnd.symbian.install sis sisx
application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
application/vnd.syncml.dm.notification
application/vnd.syncml.dmddf+wbxml
application/vnd.syncml.dmddf+xml

```
# application/vnd.syncml.dmtnds+wbxml
# application/vnd.syncml.dmtnds+xml
# application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap   pcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv   tmo
application/vnd.trid.tpt   tpt
application/vnd.triscape.mxs   mxs
application/vnd.trueapp    tra
#
 application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdl    ufd ufdl
application/vnd.uiq.theme   utz
application/vnd.umajin    umj
application/vnd.unity    unityweb
application/vnd.uoml+xml   uoml
# application/vnd.uplanet.alert
# application/vnd.uplanet.alert-wbxml
# application/vnd.uplanet.bearer-choice
# application/vnd.uplanet.bearer-choice-wbxml
# application/vnd.uplanet.cacheop
# application/vnd.uplanet.cacheop-wbxml
# application/vnd.uplanet.channel
# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx    vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
#
 application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
application/vnd.visio    vsd vst vss vsw
application/vnd.visionary   vis
# application/vnd.vividence.scriptfile
application/vnd.vsf    vsf
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml   wbxml
```

application/vnd.wap.wmlc wmlc
application/vnd.wap.wmlscriptc wmlsc
application/vnd.webturbo wtb
application/vnd.wfa.p2p
application/vnd.wfa.wsc
application/vnd.windows.devicepairing
application/vnd.wmc
application/vnd.wmf.bootstrap
application/vnd.wolfram.mathematica
application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player nbp
application/vnd.wordperfect wpd
application/vnd.wqd wqd
application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf stf
application/vnd.wv.csp+wbxml
application/vnd.wv.csp+xml
application/vnd.wv.ssp+xml
application/vnd.xacml+json
application/vnd.xara xar
application/vnd.xfdl xfdl
application/vnd.xfdl.webform
#
application/vnd.xmi+xml
application/vnd.xmpie.cpkg
application/vnd.xmpie.dpkg
application/vnd.xmpie.plan
application/vnd.xmpie.ppkg
application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic hvd
application/vnd.yamaha.hv-script hvs
application/vnd.yamaha.hv-voice hvp
application/vnd.yamaha.openscoreformat osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio saf
application/vnd.yamaha.smaf-phrase spf
application/vnd.yamaha.through-ngn
application/vnd.yamaha.tunnel-udpencap
application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp
application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
application/vq-rtcpxr
application/watcherinfo+xml
application/whoispp-query
application/whoispp-response

application/widget wgt
application/winhlp hlp
application/wita
application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace
#
application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc
application/x-director dir dcr dxr cst cct cxt w3d fgd swa
application/x-doom wad
application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb
application/x-dtbresource+xml res
application/x-dvi dvi
application/x-envoy evy
application/x-eva eva
application/x-font-bdf bdf
#
application/x-font-dos
application/x-font-framemaker
application/x-font-ghostscript gsf
application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-otf otf
application/x-font-pcf pcf

application/x-font-snf snf
application/x-font-speedo
application/x-font-sunos-news
application/x-font-ttf ttf ttc
application/x-font-type1 pfa pfb pfm afm
application/x-font-vfont
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application/x-futuresplash spl
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application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
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application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc
mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm
application/x-mswrite wri
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application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh

application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
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application/x-stuffitx sitx
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application/x-tex tex
application/x-tex-tfm tfm
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application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
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application/xcap-caps+xml
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xht
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application/xop+xml xop

application/xproc+xml xpl
application/xslt+xml xslt
application/xspf+xml xspf
application/xv+xml mxml xhvml xvml xvm
application/yang yang
application/yin+xml yin
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audio/adpcm adp
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audio/gsm-hr-08
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audio/isac
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audio/silk sil
#
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audio/vnd.cns.inf1
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audio/vnd.digital-winds eol
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audio/vnd.dolby.mps
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audio/vnd.dolby.pulse.1
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audio/vnd.dts dts
audio/vnd.dts.hd dtshd
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#
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audio/x-caf caf
audio/x-flac flac
audio/x-matroska mka
audio/x-mpegurl m3u
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audio/x-ms-wma wma
audio/x-pn-realaudio ram ra
audio/x-pn-realaudio-plugin rmp
audio/x-tta
audio/x-wav wav
audio/xm xm
chemical/x-cdx cdx
chemical/x-cif cif
chemical/x-cmdf cmdf
chemical/x-cml cml
chemical/x-csml csml
chemical/x-pdb
chemical/x-xyz xyz
image/bmp bmp
image/cgm cgm
image/dicom-rle
image/emf
image/example
image/fits
image/g3fax g3
image/gif gif
image/ief ief
image/jls
image/jp2

image/jpeg jpeg jpg jpe
image/jpm
image/jpx
image/ktx ktx
image/naplps
image/png png
image/prs.btif btif
#
image/prs.pti
image/pwg-raster
image/sgi sgi
image/svg+xml svg svgz
image/t38
image/tiff tiff tif
image/tiff-fx
image/vnd.adobe.photoshop psd
image/vnd.airzip.accelerator.azv
image/vnd.cns.inf2
image/vnd.dece.graphic uvi uvvi uvg uvvg
image/vnd.djvu djvu djv
image/vnd.dvb.subtitle sub
image/vnd.dwg dwg
image/vnd.dxf dxf
image/vnd.fastbidsheet fbs
image/vnd.fpx fpx
image/vnd.fst fst
image/vnd.fujixerox.edmics-mmr mmr
image/vnd.fujixerox.edmics-rlc rlc
image/vnd.globalgraphics.pgb
image/vnd.microsoft.icon
image/vnd.mix
image/vnd.mozilla.apng
image/vnd.ms-modi mdi
image/vnd.ms-photo wdp
image/vnd.net-fpx npx
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image/vnd.svf
image/vnd.tencent.tap
image/vnd.valve.source.texture
image/vnd.wap.wbmp wbmp
image/vnd.xiff xif
image/vnd.zbrush.pcx
image/webp webp
image/wmf
image/x-3ds 3ds

image/x-cmu-raster ras
image/x-cmx cmx
image/x-freehand fh
fhc fh4 fh5 fh7
image/x-icon ico
image/x-mrsid-image sid
image/x-pcx pcx
image/x-pict pic pct
image/x-portable-anymap pnm
image/x-portable-bitmap pbm
image/x-portable-graymap pgm
image/x-portable-pixmap ppm
image/x-rgb rgb
image/x-tga tga
image/x-xbitmap xbm
image/x-xpixmap xpm
image/x-xwindowdump xwd
message/cpim
message/delivery-status
message/disposition-notification
message/example
message/external-body
message/feedback-report
message/global
message/global-delivery-status
message/global-disposition-notification
message/global-headers
message/http
message/imdn+xml
message/news
message/partial
message/rfc822 eml mime
message/s-http
message/sip
message/sipfrag
message/tracking-status
message/vnd.si.simp
message/vnd.wfa.wsc
model/example
model/gltf+json
model/iges igs iges
model/mesh msh mesh silo
model/vnd.collada+xml dae
model/vnd.dwf dwf
#
model/vnd.flatland.3dml
model/vnd.gdl gdl
model/vnd.gs-gdl

```
# model/vnd.gs.gdl
model/vnd.gtw	gtw
# model/vnd.moml+xml
model/vnd.mts	mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu	vtu
model/vrml	wrl vrml
model/x3d+binary	x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml	x3dv x3dvz
model/x3d+xml	x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest	appcache
text/calendar	ics ifb
text/css	css
text/csv	csv
# text/csv-schema
#
 text/directory
# text/dns
# text/ecmascript
# text/encaprtp
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/html	html htm
# text/javascript
```

```
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3	n3
# text/parameters
# text/parityfec
text/plain	txt text conf def list log in
# text/provenance-notation
# text/prs.fallenstein.rst
text/prs.lines.tag	dsc
# text/prs.prop.logic
# text/raptorfec
# text/red
# text/rfc822-headers
text/richtext	rtx
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/sgml	sgml sgm
# text/t140
text/tab-separated-values	tsv
text/troff	t tr roff man me ms
text/turtle	ttl
# text/ulpfec
text/uri-list	uri uris urls
text/vcard	vcard
# text/vnd.a
# text/vnd.abc
text/vnd.curl	curl
text/vnd.curl.dcurl	dcurl
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# text/vnd.debian.copyright
# text/vnd.dmclientscript
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# text/vnd.esmertec.theme-descriptor
text/vnd.fly	fly
text/vnd.fmi.flexstor	flx
text/vnd.graphviz	gv
text/vnd.in3d.3dml	3dml
text/vnd.in3d.spot	spot
#
 text/vnd.iptc.newsml
# text/vnd.iptc.nitf
# text/vnd.latex-z
# text/vnd.motorola.reflex
# text/vnd.ms-mediapackage
```

```
# text/vnd.net2phone.commcenter.command
# text/vnd.radisys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor  jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
# text/vnd.wap.sl
text/vnd.wap.wml    wml
text/vnd.wap.wmlscript    wmls
text/x-asm     s asm
text/x-c     c cc cxx cpp h hh dic
text/x-fortran     f for f77 f90
text/x-java-source    java
text/x-nfo     nfo
text/x-opml     opml
text/x-pascal     p pas
text/x-setext     etx
text/x-sfv     sfv
text/x-uuencode     uu
text/x-vcalendar    vcs
text/x-vcard     vcf
# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
video/3gpp     3gp
# video/3gpp-tt
video/3gpp2     3g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtp
#
 video/example
video/h261     h261
video/h263     h263
# video/h263-1998
# video/h263-2000
video/h264     h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg     jpgv
# video/jpeg2000
video/jpm     jpm jpgm
video/mj2     mj2 mjp2
# video/mp1s
```

```
# video/mp2p
# video/mp2t
video/mp4     mp4 mp4v mpg4
# video/mp4v-es
video/mpeg     mpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/ogg     ogv
# video/parityfec
# video/pointer
video/quicktime     qt mov
# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hd    uvh uvvh
video/vnd.dece.mobile    uvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pd    uvp uvvp
video/vnd.dece.sd    uvs uvvs
video/vnd.dece.video    uvv uvvv
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# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
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# video/vnd.hns.video
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# video/vnd.iptvforum.2dparityfec-1010
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# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgamettools.bink
```

video/vnd.radgamettools.smacker
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video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
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video/x-flv flv
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video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found
in path(s):
* /spring-web-6-1-6-sources-jar/org/springframework/http/mime.types
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* /spring-web-6-1-6-sources-
jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/HttpMessageWriter.java
*
/spring-web-6-1-6-sources-jar/org/springframework/web/util/UriComponents.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/annotation/RequestPart.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestWebFilter.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/WebApplicationInitializer.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/UndertowHeadersAdapter.java
* /spring-web-6-1-6-sources-
jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
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/spring-web-6-1-6-sources-jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/multipart/MultipartFile.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/annotation/CookieValue.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/multipart/MultipartResolver.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/client/RequestCallback.java
* /spring-web-6-1-6-sources-
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* /spring-web-6-1-6-sources-
jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/FormHttpMessageWriter.java
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/spring-web-6-1-6-sources-jar/org/springframework/http/client/reactive/JdkClientHttpConnector.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/HttpHandlerDecoratorFactory.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/converter/HttpMessageConverter.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/filter/FormContentFilter.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/HttpMessageReader.java
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* /spring-web-6-1-6-sources-jar/org/springframework/web/util/HtmlUtils.java
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* /spring-web-6-1-6-sources-jar/org/springframework/http/MediaTypeFactory.java
* /spring-web-6-1-6-sources-
jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/bind/support/WebBindingInitializer.java

* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/multipart/FileStorage.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/HttpRequestHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestHandler.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /spring-web-6-1-6-sources-
jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java
*
/spring-web-6-1-6-sources-
jar/org/springframework/web/method/support/CompositeUriComponentsContributor.java
* /spring-web-6-1-6-sources-jar/org/springframework/web/filter/reactive/HiddenHttpMethodFilter.java
* /spring-web-6-1-6-sources-jar/org/springframework/http/codec/multipart/FilePart.java
* /spring-web-6-1-6-sources-
jar/org/springframework/http/converter/protobuf/ProtobufJsonFormatHttpMessageConverter.java
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1.889 spring-web-mvc 6.1.6

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* /spring-webmvc-6-1-6-sources-
jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
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jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java

* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/DefaultServerRequest.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/RouterFunctionDsl.kt
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/RouterFunctionBuilder.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/RouterFunctions.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/ServerResponse.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/ArgumentAware.java
*
/spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/VersionStrategy.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/AbstractView.java

* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/ThemeTag.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/LocaleResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/ParamAware.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/support/BindStatus.java
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 /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/ThemeResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/form/TagWriter.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/form/SelectedValueComparator.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/handler/SimpleMappingExceptionResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/Controller.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/HandlerAdapter.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/config/ViewResolversBeanDefinitionParser.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/HandlerInterceptor.java
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*
/spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyAdviceChain.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/RequestPredicate.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/LastModified.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
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jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
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jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java
* /spring-webmvc-6-1-6-sources-
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/support/WebContentGenerator.java
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* /spring-webmvc-6-1-6-sources-
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/function/AsyncServerResponse.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/HandlerMapping.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java
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* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/BeanNameViewResolver.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-6-1-6-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/view/script/RenderingContext.java
*
 /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/EvalTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/HandlerExceptionResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java

* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/TransformedResource.java
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 /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/ParamTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
* /spring-webmvc-6-1-6-sources-
jar/org/springframework/web/servlet/mvc/condition/AbstractNameValueExpression.java
* /spring-webmvc-6-1-6-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletResponseMethodArgumentResolver.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/TransformTag.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/tags/ArgumentTag.java
* /spring-webmvc-6-1-6-sources-
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /spring-webmvc-6-1-6-sources-
jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java
*
 /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/HttpServletBean.java
* /spring-webmvc-6-1-6-sources-
jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
* /spring-webmvc-6-1-6-sources-jar/org/springframework/web/servlet/mvc/AbstractController.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-6-1-6-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java

1.890 spring-beans 6.1.6

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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyValuesEditor.java
*
 /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/ReaderEventListener.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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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyBatchUpdateException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/TypeConverter.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/BeanMetadataElement.java
*
/spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/UUIDEditor.java
* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
*
/spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/FactoryBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/ReaderContext.java
*
 /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/annotation/Value.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/BeanDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
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/spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/annotation/Configurable.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/ConversionNotSupportedException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/EmptyReaderEventListener.java
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/spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyEditorRegistry.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java
* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanExpressionException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
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*
 /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/BeanInstantiationException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/MethodInvocationException.java
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 /spring-beans-6-1-6-sources-jar/org/springframework/beans/InvalidPropertyException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/Aware.java
*
 /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/ObjectFactory.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/InitializingBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyAccessException.java
* /spring-beans-6-1-6-sources-
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/BeanWrapperImpl.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java

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/spring-beans-6-1-6-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
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jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java
* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionPropertiesCodeGenerator.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/MethodDescriptor.java
*
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* /spring-beans-6-1-6-sources-
jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/ManagedProperties.java
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/spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java

* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/aot/AutowiredFieldValueResolver.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/aot/InstanceSupplierCodeGenerator.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragments.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/aot/BeanInstanceSupplier.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanCreationException.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/TypeConverterSupport.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/NullBean.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
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jar/org/springframework/beans/factory/aot/AutowiredMethodArgumentsResolver.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
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 /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/BeanWrapper.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/FatalBeanException.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
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* /spring-beans-6-1-6-sources-
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/TypeMismatchException.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/support/MethodReplacer.java
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*/
/**
  * Process the given {@link ConfigurableListableBeanFactory} 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
  * bean factory. 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 bean factory does not contain anything that is relevant to
  * the processor, this method should return a {@code null} contribution.
  * @param beanFactory the bean factory to process
  * @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
  */

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 /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
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* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/NamedBean.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /spring-beans-6-1-6-sources-jar/org/springframework/beans/factory/BeanNameAware.java
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* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/annotation/Propagation.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
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/spring-tx-6-1-6-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
* /spring-tx-6-1-6-sources-
jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
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* /spring-tx-6-1-6-sources-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
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 /spring-tx-6-1-6-sources-jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/jta/TransactionFactory.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/InvalidIsolationLevelException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/TransactionException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /spring-tx-6-1-6-sources-jar/org/springframework/dao/EmptyResultDataAccessException.java
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* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java
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* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
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/spring-tx-6-1-6-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
* /spring-tx-6-1-6-sources-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /spring-tx-6-1-6-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
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* /spring-tx-6-1-6-sources-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java

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jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
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* /spring-tx-6-1-6-sources-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/TimedCallable.java
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```

Found in path(s):
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/OnlyOnceLoggingDenyMeterFilter.java
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```
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Found in path(s):
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/aop/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/HighCardinalityTagsDetector.java
* /micrometer-core-1-12-5-sources-

jar/io/micrometer/core/instrument/binder/jersey/server/ObservationApplicationEventListener.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/observation/MeterObservationHandler.java
*
/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/docs/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/annotation/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/tomcat/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyContext.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/ipc/http/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jvm/package-info.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/jersey/server/ObservationRequestEventListener.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/lang/package-info.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/jersey/server/JerseyObservationConvention.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/kafka/package-info.java
*
/micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/http/DefaultHttpJakartaServletRequestTagsProvider.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/http/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/hystrix/package-info.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/jersey/server/JerseyObservationDocumentation.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/system/package-info.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientObservationConvention.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/okhttp3/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/logging/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/package-info.java
*
/micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientContext.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jpa/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyKeyValues.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jetty/package-info.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/jersey/server/DefaultJerseyObservationConvention.java
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/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/config/validate/package-info.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/observation/ObservationOrTimerCompatibleInstrumentation.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/observation/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/kotlin/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/mongodb/package-info.java

* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/db/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/commonspool2/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/observation/DefaultMeterObservationHandler.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultApacheHttpClientObservationConvention.java
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Found in path(s):
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/util/internal/logging/LocationAwareSlf4JLogger.java
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Found in path(s):
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/TimedExecutor.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpMetricsEventListener.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/EhCache2Metrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/pause/PauseDetector.java
*
 /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionCounter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardClock.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/AbstractTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmGcMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardConfig.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/aop/CountedAspect.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/AbstractMeter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeMeterRegistry.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jvm/ClassLoaderMetrics.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/MeterPartition.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/config/NamingConvention.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/Measurement.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/AnnotationFinder.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardCounter.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/DefaultGauge.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/logging/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/simple/CountingMode.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/system/UptimeMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionTimer.java

* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowMax.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeCustomMeter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/system/ProcessorMetrics.java
* /micrometer-core-1-12-5-sources-
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*
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/Clock.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeCounter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/GuavaCacheMetrics.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/push/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/aop/TimedAspect.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/Metrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/cumulative/package-info.java
*
/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeGauge.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/tomcat/TomcatMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/simple/SimpleMeterRegistry.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/AbstractCompositeMeter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/IOUtils.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/HistogramSnapshot.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpContext.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/annotation/TimedSet.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/CountAtBucket.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/DefaultLongTaskTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/step/StepFunctionCounter.java
*
/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopCounter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/ValueAtPercentile.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/config/InvalidConfigurationException.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/DefaultMeter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/TimedFinder.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeLongTaskTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/hystrix/HystrixMetricsBinder.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/package-info.java
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/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/simple/SimpleConfig.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/step/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/LongTaskTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/config/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfig.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/StringEscapeUtils.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherCommand.java

* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/TimeUtils.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmCompilationMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jpa/HibernateMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/search/MeterNotFoundException.java
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/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeCounter.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/config/MissingRequiredConfigurationException.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/pause/NoPauseDetector.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/Counter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/step/StepRegistryConfig.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/system/DiskSpaceMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/HierarchicalNameMapper.java
*
/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/MeterEquivalence.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/DistributionStatisticConfig.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/HistogramGauges.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/CacheMeterBinder.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopTimeGauge.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/logging/LogbackMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/annotation/Timed.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardRate.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/util/DoubleFormat.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeFunctionTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/search/Search.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/simple/package-info.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeFunctionCounter.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/HistogramSupport.java
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/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/db/DatabaseTableMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/FunctionTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeTimeGauge.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTagsProvider.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/search/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/Statistic.java

* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/system/FileDescriptorMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/Histogram.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/step/StepCounter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/Meter.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/package-info.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/step/StepDouble.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionCounter.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/DistributionSummary.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/db/PostgreSQLDatabaseMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyStatisticsMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/FunctionCounter.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopDistributionSummary.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/TimeGauge.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/composite/CompositeTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/JCacheMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopTimer.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/CaffeineCacheMetrics.java
* /micrometer-core-1-12-5-sources-
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/noop/NoopGauge.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardTimer.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/logging/Log4j2Metrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/MockClock.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/step/StepMeterRegistry.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/TimedExecutorService.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/BaseUnits.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmMemoryMetrics.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionTimer.java
* /micrometer-core-1-12-5-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardDistributionSummary.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTags.java

* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/internal/package-info.java
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jar/io/micrometer/core/instrument/distribution/pause/ClockDriftPauseDetector.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/search/RequiredSearch.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeTimer.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLogger.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/util/internal/logging/InternalLogLevel.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientMetrics.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/config/validate/PropertyValidator.java
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jar/io/micrometer/core/instrument/binder/grpc/GrpcServerObservationConvention.java
*
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jar/io/micrometer/core/instrument/binder/grpc/GrpcServerObservationContext.java

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jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientCallListener.java
*

/micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/cache/CaffeineStatsCounter.java
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* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientInterceptor.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerCall.java
* /micrometer-core-1-12-5-sources-jar/io/micrometer/core/instrument/binder/grpc/AbstractMetricCollectingInterceptor.java
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1.893 spring-framework 6.1.6

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* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConverterRegistry.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/filter/TypeFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/ErrorHandler.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
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 /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
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* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/StaxStreamHandler.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/KeyFactory.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
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* /spring-core-6-1-6-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/asm/SpringAsmInfo.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/ResourceLoader.java
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 /spring-core-6-1-6-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
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* /spring-core-6-1-6-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/JdkIdGenerator.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/log/LogAccessor.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/env/MapPropertySource.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/SimpleIdGenerator.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/FileUrlResource.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/metrics/StartupStep.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/PropertyResolver.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/serializer/Deserializer.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/comparator/InstanceComparator.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/LinkedMultiValueMap.java

* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/SortedProperties.java
* /spring-core-6-1-6-sources-
jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/CommonsLogWriter.java
*
/spring-core-6-1-6-sources-jar/org/springframework/util/CustomizableThreadCreator.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/serializer/Serializer.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/AliasRegistry.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/metrics/ApplicationStartup.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/task/TaskDecorator.java
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* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/NativeConfigurationWriter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/FailureCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/ExecutableMode.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/NestedExceptionUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/function/ThrowingBiFunction.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBufferInputStream.java
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 /spring-core-6-1-6-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-6-1-6-sources-
jar/org/springframework/aot/hint/annotation/RegisterReflectionForBindingProcessor.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/ResourceHintsPredicates.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/substitution/Target_ClassFinder.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/FileSystemGeneratedFiles.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/SerializationHints.java
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 /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
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* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/MemberHint.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/Netty5BufferEncoder.java
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* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/RuntimeHintsRegistrar.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/ConditionalHint.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
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/spring-core-6-1-6-sources-jar/org/springframework/core/style/SimpleValueStyler.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/TouchableDataBuffer.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/SerializationHintsPredicates.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
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/spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/substitution/Target_Introspector.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/FileNativeConfigurationWriter.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java

* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/GeneratedMethods.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/GeneratedMethod.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/ProxyHintsPredicates.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/PropertiesPersister.java
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 /spring-core-6-1-6-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/MethodReference.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/StaxUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/util/ParallelSorterEmitter.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/AccessFieldTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/AbstractClassTransformer.java
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 /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/FieldProviderTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ProcessSwitchCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassEmitterTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Block.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/Dispatcher.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/ProxyRefDispatcher.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Constants.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/FastMember.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/AddDelegateTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Signature.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/TransformingClassGenerator.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/util/ParallelSorter.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/BeanGenerator.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/FixedKeySet.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/ConstructorDelegate.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/DefaultGeneratorStrategy.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/MixinBeanEmitter.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassTransformerFactory.java
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 /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Predicate.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Converter.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Customizer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassTransformerTee.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/LazyLoader.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/FieldVisitorTee.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassReaderGenerator.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/InvocationHandler.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/GeneratorStrategy.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldEnabled.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/TinyBitSet.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/util/StringSwitcher.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ObjectSwitchCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/FastConstructor.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ClassGenerator.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/AddPropertyTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ClassTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/Callback.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/NamingPolicy.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/NoOp.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Transformer.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/AnnotationVisitorTee.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ClassesKey.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Local.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/MethodVisitorTee.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/util/SorterTemplate.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/BulkBeanException.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassVisitorTee.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ProcessArrayCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/MethodFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/BulkBean.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/FieldProvider.java

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* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/WildcardTypeName.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/MethodSpec.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/AnnotationSpec.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/NameAllocator.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/Util.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/FieldSpec.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/JavaFile.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/ParameterSpec.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/ArrayTypeName.java
* /spring-core-6-1-6-sources-jar/org/springframework/javapoet/CodeBlock.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/type/ClassMetadata.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/DecodingException.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/env/EnvironmentCapable.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/EncodingException.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/CodecException.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /spring-core-6-1-6-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/InvalidMimeTypeException.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/ResolvableTypeProvider.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/Order.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StreamConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/style/ToStringStyler.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/AbstractXMLReader.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/OverridingClassLoader.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
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* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
*
/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ConstructorInstantiator.java
* /spring-core-6-1-6-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java

* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
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 /spring-core-6-1-6-sources-jar/org/springframework/objenesis/Objenesis.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisException.java
* /spring-core-6-1-6-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
* /spring-core-6-1-6-sources-
jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
*
 /spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiatorBase.java
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* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-1-6-sources-
jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
* /spring-core-6-1-6-sources-
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/AddInitTransformer.java
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 /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/InterfaceMaker.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/MethodInfo.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/CallbackInfo.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ClassInfo.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/RejectModifierPredicate.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/CallbackHelper.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToPatternConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
*

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* /spring-core-6-1-6-sources-jar/org/springframework/core/MethodIntrospector.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotatedMethod.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBinding.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/SerializationUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/SimpleAliasRegistry.java
*
/spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/OutputStreamPublisher.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToRegexConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/BridgeMethodResolver.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
*
/spring-core-6-1-6-sources-jar/org/springframework/core/KotlinDetector.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/function/SupplierUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/ResourceDecoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/OrderUtils.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/BindingReflectionHintsRegistrar.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /spring-core-6-1-6-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/ResolvableType.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/PropertiesPropertySource.java

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 /spring-core-6-1-6-sources-jar/org/springframework/util/RouteMatcher.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/unit/DataUnit.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/MultiValueMap.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/Ordered.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/PathMatcher.java
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* /spring-core-6-1-6-sources-jar/org/springframework/core/io/AbstractResource.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/env/AbstractEnvironment.java
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 /spring-core-6-1-6-sources-jar/org/springframework/aot/hint/ProxyHintsExtensions.kt
* /spring-core-6-1-6-sources-jar/org/springframework/core/codec/CharBufferDecoder.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/NativeDetector.java
* /spring-core-6-1-6-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-6-1-6-sources-jar/org/springframework/util/Base64Utils.java
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* /spring-core-6-1-6-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
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* /spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/BasicJsonWriter.java
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1.896 spring-aspects 6.1.6

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* /spring-aspects-6-1-6-sources-jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
*
 /spring-aspects-6-1-6-sources-jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
* /spring-aspects-6-1-6-sources-jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /spring-aspects-6-1-6-sources-jar/org/springframework/cache/aspectj/AspectJJCacheConfiguration.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-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
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jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
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jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
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jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
*
/spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/ConnectionCallback.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-6-1-6-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryRuntimeHints.java
*
 /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
* /spring-jdbc-6-1-6-sources-

jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/MariaDBSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/object/SqlFunction.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
*
/spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.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>NOTE: 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.
  */

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*
/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/CustomSQLErrorCodesTranslation.java
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/SqlArrayValue.java
*
 /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/ShardingKeyDataSourceAdapter.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java

* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
*
/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/DataClassRowMapper.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/JdbcAccessor.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/ShardingKeyProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/RowMapper.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
*
/spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/core/namedparam/SimplePropertySqlParameterSource.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/SimplePropertyRowMapper.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/JdbcTransactionManager.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/SqlValue.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
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/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
*
/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/JdbcClient.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/SQLWarningException.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/DefaultJdbcClient.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java

* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
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/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/MySQLIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
*
/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
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* /spring-jdbc-6-1-6-sources-
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java

* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /spring-jdbc-6-1-6-sources-
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
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/spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/SqlParameter.java
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/SqlProvider.java
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* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-6-1-6-sources-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
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/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
*
* Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.

* Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
*
*
* <p>This package and related packages are discussed in Chapter 9 of
* Expert One-On-One J2EE Design and Development
* by Rod Johnson (Wrox, 2002).
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1.898 spring-data-commons 3.2.5

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* /jetty-security-12-0-8-sources-jar/module-info.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/JAASLoginService.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/SPNEGOLoginService.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/authentication/FormAuthenticator.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/DefaultIdentityService.java
*
 /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/internal/RoleRunAsToken.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/Authenticator.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/authentication/LoginAuthenticator.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/callback/ObjectCallback.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/internal/DeferredAuthenticationState.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/spi/AbstractDatabaseLoginModule.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/package-info.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/callback/RequestParameterCallback.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/JAASUserPrincipal.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/callback/package-info.java
*
 /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/UserIdentity.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/spi/package-info.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/authentication/SessionAuthentication.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/authentication/SslClientCertAuthenticator.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/callback/AbstractCallbackHandler.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/RolePrincipal.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/package-info.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/UserStore.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/RoleDelegateUserIdentity.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/SecurityHandler.java
*
 /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/AuthenticationState.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/JDBCLoginService.java

* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/spi/JDBCLoginModule.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/spi/LdapLoginModule.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/PropertyUserStore.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/authentication/SPNEGOAuthenticator.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/IdentityService.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/spi/PropertyFileLoginModule.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/internal/DefaultUserIdentity.java
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/jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/UserPrincipal.java
* /jetty-security-12-0-8-sources-jar/org/eclipse/jetty/security/jaas/spi/DataSourceLoginModule.java

1.912 grpc-grpclb 1.63.0

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* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/CachedSubchannelPool.java
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* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/DropType.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbClientLoadRecorder.java
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1.913 jetty-util 12.0.8

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/**
* Ensures serial invocation of submitted tasks.
* <p>
* The {@link InvocationType} of the {@link Runnable} returned from this class is
* always {@link InvocationType#BLOCKING} since a blocking task may be added to the queue
* at any time.
* <p>
* This class was inspired by the public domain class

* NonBlockingMutexExecutor
* </p>
*/

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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/FuturePromise.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/IteratingNestedCallback.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/annotation/ManagedOperation.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/ResourceFactoryInternals.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ssl/SslContextFactory.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/security/Credential.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/HostPort.java
*
 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/FutureCallback.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/compression/DeflaterPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/URIUtil.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/CharsetStringBuilder.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Callback.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Attachable.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/MultiReleaseJarFile.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Scanner.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ExceptionUtil.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/IntrospectionUtil.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/StopLifeCycle.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ThreadIdPool.java
*
 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/preventers/package-info.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ConstantThrowable.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ShutdownThread.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/IO.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/HaltLifeCycleListener.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/DateCache.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Index.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/FileSystemPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/MathUtils.java

* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/MountedPathResource.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/strategy/ExecuteProduceConsume.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java
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 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/Container.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/SocketAddressResolver.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/AttributesMap.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Fields.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/ResourceFactory.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/LockedPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/VirtualThreads.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/security/CertificateValidator.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Pool.java
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 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/ContainerLifeCycle.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/GraalIssue5720PathResource.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/strategy/EatWhatYouKill.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Jetty.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/statistic/RateCounter.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/JavaVersion.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/DumpableCollection.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/jndi/NamingUtil.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ExecutionStrategy.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ByteArrayISO8859Writer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/RegexSet.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/IncludeExcludeSet.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ConcurrentPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/PathResourceFactory.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ArrayTernaryTrie.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/CountingCallback.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/PathResource.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/URLResourceFactory.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/TimerScheduler.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/MountedPathResourceFactory.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ArrayUtil.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/CombinedResource.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Loader.java
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 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ClassVisibilityChecker.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/Destroyable.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/EmptyTrie.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/PrivilegedThreadFactory.java

* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ProcessorUtils.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Decorator.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/security/CredentialProvider.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Utf8StringBuilder.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Atomics.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/strategy/ProduceConsume.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/GraalIssue5720PathResourceFactory.java
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 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ssl/KeyStoreScanner.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/compression/InflaterPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/ResourceCollators.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/AbstractTrie.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/InetAddressPattern.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ssl/SslSelectionDump.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/MultiMap.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/AttributeNormalizer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ssl/SniX509ExtendedKeyManager.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ArrayTrie.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/BlockingArrayQueue.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/DeprecationWarning.java
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 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/FileID.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ThreadPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Utf8LineParser.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/annotation/ManagedObject.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/RFC9110QuotedStringTokenizer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/CompletableTask.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/MemoryResource.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/security/SecurityUtils.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/package-info.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/NanoTime.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/SerializedExecutor.java
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 /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ThreadClassLoaderScope.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/PathCollators.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ReservedThreadExecutor.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/Graceful.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ThreadPoolBudget.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/ResourceUriPatternPredicate.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/security/package-info.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/Resources.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/TreeTrie.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/ClassLoaderDump.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/FileDestroyable.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/strategy/AdaptiveExecutionStrategy.java
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* /jetty-util-12-0-8-sources-jar/module-info.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/PidFile.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/statistic/package-info.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/Sweeper.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/SharedBlockingCallback.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/AtomicBiInteger.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/package-info.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/InetAddressSet.java
*
/jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/statistic/CounterStatistic.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/DumpableAttributes.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/IteratingCallback.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/StaticException.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/LegacyQuotedStringTokenizer.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/AbstractLifeCycle.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/AutoLock.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/TopologicalSort.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/TypeUtil.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/resource/Resource.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ClassLoadingObjectInputStream.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/component/AttributeContainerMap.java
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/jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/HostMap.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/SearchPattern.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/MultiPartWriter.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/MonitoredQueuedThreadPool.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/AsciiLowerCaseSet.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Attributes.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/Scheduler.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/compression/CompressionPool.java
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* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/jndi/NamingDump.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/Blocker.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ServiceLoaderSpliterator.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/LazyList.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/thread/ExecutorThreadPool.java
* /jetty-util-12-0-8-sources-jar/org/eclipse/jetty/util/ssl/X509.java
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/*
* @(#)UnixCrypt.java 0.9 96/11/25
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1.914 tomli 2.0.1

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immerrr again
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Aymeric Augustin
Lee Ball

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Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
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Jon Dufresne
Tim Graham
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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlMimeType.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlElements.java
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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlValue.java
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 /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlRootElement.java
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Kai-Uwe Behrmann
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Chris Evans (Google)
Lorenzo Ridolfi
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Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
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jQuery UI v1.13.2

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Ext headers GL/glext.h Khronos
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---
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include/GL/wglxext.h :

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David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
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Mesa 3-D Graphics Library v21.0.3

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include/GL/gl.h :

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include/GL/glxext.h
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1.924 libcurl 8.5.0-r0

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1.925 tomcat 10.1.24

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd

- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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1.926 netty-transport-native-unix-common 4.1.110.Final

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* /netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/Unix.java
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* /netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

*
/netty-transport-native-unix-common-4-1-110-final-sources-jar/netty_unix_limits.c
* /netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /netty-transport-native-unix-common-4-1-110-final-sources-jar/netty_unix_limits.h
* /netty-transport-native-unix-common-4-1-110-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-110-final-sources-
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* /netty-transport-native-unix-common-4-1-110-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
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jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /netty-transport-native-unix-common-4-1-110-final-sources-jar/netty_unix_filedescriptor.h
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* /netty-transport-native-unix-common-4-1-110-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/Socket.java
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* /netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
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/netty-transport-native-unix-common-4-1-110-final-sources-jar/io/netty/channel/unix/Errors.java
* /netty-transport-native-unix-common-4-1-110-final-sources-

jar/io/netty/channel/unix/ServerDomainSocketChannel.java
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jar/io/netty/channel/unix/DomainDatagramPacket.java
* /netty-transport-native-unix-common-4-1-110-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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jar/io/netty/channel/unix/DomainDatagramChannel.java
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jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
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1.927 netty-handler-proxy 4.1.110.Final

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* /netty-handler-proxy-4-1-110-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
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 /netty-handler-proxy-4-1-110-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /netty-handler-proxy-4-1-110-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /netty-handler-proxy-4-1-110-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
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1.928 netty-transport 4.1.110.Final

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* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
*
 /netty-transport-4-1-110-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/nio/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/oio/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
*

/netty-transport-4-1-110-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/Bootstrap.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
*
/netty-transport-4-1-110-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/EventLoopGroup.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
*

/netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelOption.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/DefaultEventLoop.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
*
/netty-transport-4-1-110-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
*
/netty-transport-4-1-110-final-sources-jar/io/netty/channel/local/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/CombinedIterator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/EventLoop.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
*
 /netty-transport-4-1-110-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java

* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
*
 /netty-transport-4-1-110-final-sources-jar/io/netty/channel/SelectStrategy.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
*
 /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
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* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/AbstractEventLoop.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/ChannelFactory.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
```

```
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
```

```
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
```

```
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
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*
 /netty-transport-4-1-110-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/internal/package-info.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /netty-transport-4-1-110-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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1.929 netty-codec-dns 4.1.110.Final

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* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
*
 /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
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* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
*
 /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
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* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
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* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java

* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
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* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
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 /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/package-info.java
* /netty-codec-dns-4-1-110-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
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1.930 netty-resolver 4.1.110.Final

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* /netty-resolver-4-1-110-final-sources-jar/io/netty/resolver/AddressResolver.java
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1.931 netty-handler 4.1.110.Final

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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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 /netty-handler-4-1-110-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/flow/package-info.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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/netty-handler-4-1-110-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
*
/netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
*
 /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
*
/netty-handler-4-1-110-final-sources-jar/io/netty/handler/pcap/package-info.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
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 /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
*
 /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
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* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
*
 /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /netty-handler-4-1-110-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java

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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/Cookie.java
*
 /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java

* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
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jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
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jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/package-info.java
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 /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpVersion.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
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 /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /netty-codec-http-4-1-110-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
* /netty-codec-http-4-1-110-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
*
 /netty-codec-http-4-1-110-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /netty-codec-http-4-1-110-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
*
/netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/TooLongHttpLineException.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java
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 /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
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* /netty-codec-http-4-1-110-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java

* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /netty-codec-http-4-1-110-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
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 /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
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 /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
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/netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /netty-codec-http-4-1-110-final-sources-
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
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* /netty-codec-http-4-1-110-final-sources-
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /netty-codec-http-4-1-110-final-sources-
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
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* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
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/netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /netty-codec-http-4-1-110-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
* /netty-codec-http-4-1-110-final-sources-
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* /netty-resolver-dns-4-1-110-final-sources-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
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 /netty-resolver-dns-4-1-110-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
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jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

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

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1.935 netty 4.1.110.Final

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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/AsciiString.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/Mapping.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
*
 /netty-common-4-1-110-final-sources-jar/io/netty/util/DomainNameMapping.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/IntegerHolder.java

* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/ResourceLeakHint.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
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/netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/LongCounter.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/AsyncMapping.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/Hidden.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/svm/package-info.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/ObjectPool.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/ByteObjectMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/ByteCollections.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/ObjectUtil.java
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 /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/LongCollections.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/CharCollections.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/ShortCollections.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/IntObjectMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/ShortObjectMap.java
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 /netty-common-4-1-110-final-sources-jar/io/netty/util/collection/CharObjectMap.java
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  <name>jctools-jctools</name>
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 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
 <license>
  <name>Apache
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  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
```

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 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>

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 <java.test.version>1.8</java.test.version>

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 <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
 <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

 <hamcrest.version>1.3</hamcrest.version>
 <junit.version>4.12</junit.version>
 <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

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* /netty-common-4-1-110-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/package-info.java
*
 /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/Timeout.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
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 /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/Timer.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/StringUtil.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/CharsetUtil.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/EventExecutor.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java

* /netty-common-4-1-110-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/Signal.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/Cleaner.java
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/netty-common-4-1-110-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
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* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
*
 /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/PriorityQueue.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/SuppressForbidden.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/NettyRuntime.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
* /netty-common-4-1-110-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
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1.936 netty-codec 4.1.110.Final

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jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/string/package-info.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/package-info.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java

* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
*
/netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-110-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/CodecException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
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/netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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/netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
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/netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java

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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
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* /netty-codec-4-1-110-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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Found in path(s):
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/ValueConverter.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/base64/Base64.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
```

```
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
```

```
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
```

```
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
```

```
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/Headers.java
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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
*
 /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* Robert
 Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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* /netty-codec-4-1-110-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

1.937 netty-codec-socks 4.1.110.Final

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* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
*
/netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
*
/netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
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jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
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 /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
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* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
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* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
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* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socks/package-info.java
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* /netty-codec-socks-4-1-110-final-sources-
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* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
*
 /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java

* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
*
/netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /netty-codec-socks-4-1-110-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
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1.938 backports.tarfile 1.2.0

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1.939 python-requests 2.32.3

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1.941 perfmark-api 0.26.0

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* /jetty-util-12-0-9-sources-jar/org/eclipse/jetty/util/annotation/ManagedObject.java
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* Ensures serial invocation of submitted tasks.
* <p>
* The {@link InvocationType} of the {@link Runnable} returned from this class is
* always {@link InvocationType#BLOCKING} since a blocking task may be added to the queue
* at any time.
* <p>
* This class was inspired by the public domain class
* <a href="https://github.com/jroper/reactive-streams-servlet/blob/master/reactive-streams-
```

servlet/src/main/java/org/reactivestreams/servlet/NonBlockingMutexExecutor.java">NonBlockingMutexExecutor
* </p>
*/

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1.946 spring-aop 6.1.8

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* /spring-core-6-1-8-sources-jar/org/springframework/core/ResolvableTypeProvider.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StreamConverter.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/Order.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/EncodingException.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/InvalidMimeTypeException.java

* /spring-core-6-1-8-sources-jar/org/springframework/core/style/ToStringStyler.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/DecodingException.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/ClassMetadata.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/CodecException.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
*
/spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/ObjenesisException.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
*
/spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/Objenesis.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
* /spring-core-6-1-8-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
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* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/basic/ConstructorInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /spring-core-6-1-8-sources-
jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /spring-core-6-1-8-sources-
jar/org/springframework/objenesis/instantiator/basic/ObjectStreamClassInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
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/spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /spring-core-6-1-8-sources-
jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
* /spring-core-6-1-8-sources-
jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
* /spring-core-6-1-8-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java

* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /spring-core-6-1-8-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
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* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/OverridingClassLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/CompositeIterator.java
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 /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
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* /spring-core-6-1-8-sources-jar/org/springframework/asm/TypeReference.java
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 /spring-core-6-1-8-sources-jar/org/springframework/asm/ByteVector.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/FieldVisitor.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Handle.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Context.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Edge.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Constants.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/CurrentFrame.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Frame.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Opcodes.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/ModuleWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/ClassTooLargeException.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/FieldWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/SymbolTable.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/asm/Attribute.java
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* /spring-core-6-1-8-sources-jar/org/springframework/asm/MethodWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/ConstantDynamic.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/RecordComponentWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/ClassReader.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/ModuleVisitor.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/RecordComponentVisitor.java
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* /spring-core-6-1-8-sources-jar/org/springframework/asm/ClassVisitor.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/Handler.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/MethodTooLargeException.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/TypePath.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-6-1-8-sources-jar/org/springframework/asm/SpringAsmInfo.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java

* /spring-core-6-1-8-sources-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-6-1-8-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/util/JdkIdGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/AbstractClassFilterTransformer.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/CallbackInfo.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/MethodInfoTransformer.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/impl/AddInitTransformer.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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 /spring-core-6-1-8-sources-jar/org/springframework/core/style/StylerUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/InfrastructureProxy.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
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* /spring-core-6-1-8-sources-jar/org/springframework/util/function/SupplierUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
*

/spring-core-6-1-8-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/OrderUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/ResourceDecoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/support/SpringFactoriesLoaderRuntimeHints.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/OutputStreamPublisher.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/BindingReflectionHintsRegistrar.java
*

/spring-core-6-1-8-sources-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/SimpleAliasRegistry.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToPatternConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBinding.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/ClassUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/ResolvableType.java
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/spring-core-6-1-8-sources-jar/org/springframework/util/StreamUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/CoroutinesUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/BridgeMethodResolver.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/StringUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AttributeMethods.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/KotlinDetector.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
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/spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AnnotatedMethod.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/MethodIntrospector.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToRegexConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/annotation/Reflective.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/InputStreamResource.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/UrlResource.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/ResourceUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
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/spring-core-6-1-8-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/SerializationUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/MethodProxy.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/Mixin.java
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/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/MixinEmitter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/impl/AddStaticInitTransformer.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/LazyLoaderGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/DefaultNamingPolicy.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ReflectUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/ClassFilterTransformer.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/ClassTransformerChain.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/DebuggingClassWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/CallbackGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/Proxy.java
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/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/AsmApi.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/TypeUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/EmitUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/FastClass.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/NoOpGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java

* /spring-core-6-1-8-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/MethodDelegate.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/CollectionUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
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 /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/InvocationHandlerGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/FastMethod.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/AbstractClassLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/MethodWrapper.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/MulticastDelegate.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/CodeEmitter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/AbstractEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
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 /spring-core-6-1-8-sources-jar/org/springframework/util/function/ThrowingConsumer.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/MemberHint.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/function/ThrowingBiFunction.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/TouchableDataBuffer.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
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* /spring-core-6-1-8-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
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 /spring-core-6-1-8-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/ConditionalHint.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/Netty5BufferDecoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/predicate/SerializationHintsPredicates.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/DataBufferOutputStream.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/generate/GeneratedMethod.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/nativex/feature/ThrowawayClassLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/function/ThrowingFunction.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/RuntimeHintsRegistrar.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/DomContentHandler.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/FieldHint.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/NestedExceptionUtils.java

* /spring-core-6-1-8-sources-jar/org/springframework/aot/generate/MethodReference.java
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jar/org/springframework/aot/hint/annotation/RegisterReflectionForBindingProcessor.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/predicate/ResourceHintsPredicates.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/ProxyHints.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/nativex/FileNativeConfigurationWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/nativex/NativeConfigurationWriter.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/annotation/SimpleReflectiveProcessor.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
*
/spring-core-6-1-8-sources-jar/org/springframework/aot/generate/GeneratedMethods.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/DefaultResourceLoader.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/SerializationHints.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/Netty5BufferEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/PropertiesPersister.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
*
/spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/annotation/ReflectiveProcessor.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/nativex/substitution/Target_Introspector.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
*
/spring-core-6-1-8-sources-jar/org/springframework/aot/hint/predicate/ProxyHintsPredicates.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-6-1-8-sources-jar/org/springframework/aot/generate/FileSystemGeneratedFiles.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/Ordered.java
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 /spring-core-6-1-8-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/PathMatcher.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/DecoratingProxy.java

* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
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 /spring-core-6-1-8-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/unit/DataUnit.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/MultiValueMap.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/RouteMatcher.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/AbstractDecoder.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
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 /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/io/ProtocolResolver.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/converter/ConverterRegistry.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/backoff/BackOffExecution.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/ErrorHandler.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
* /spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java

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* /spring-core-6-1-8-sources-jar/org/springframework/core/metrics/StartupStep.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
*
 /spring-core-6-1-8-sources-jar/org/springframework/util/LinkedMultiValueMap.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/AliasRegistry.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java

* /spring-core-6-1-8-sources-jar/org/springframework/util/comparator/InstanceComparator.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/SimpleIdGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/util/CustomizableThreadCreator.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/io/FileUrlResource.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/SortedProperties.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/MapPropertySource.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
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jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
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/spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/SpringCglibInfo.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/ClassTransformerFactory.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/FastMember.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/ClassReaderGenerator.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/NamingPolicy.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/util/ParallelSorterEmitter.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/Local.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/beans/FixedKeySet.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/InvocationHandler.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassesKey.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/TransformingClassLoader.java
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 /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/DefaultGeneratorStrategy.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/impl/FieldProvider.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/ProxyRefDispatcher.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassNameReader.java
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* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/Block.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/NoOp.java
* /spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassTransformer.java
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* /spring-core-6-1-8-sources-jar/org/springframework/core/io/VfsResource.java
* /spring-core-6-1-8-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
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/spring-core-6-1-8-sources-jar/org/springframework/util/Assert.java
* /spring-core-6-1-8-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
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* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/ResourceHintsExtensions.kt
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* /spring-core-6-1-8-sources-jar/org/springframework/aot/hint/MemberCategory.java
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* /spring-core-6-1-8-sources-jar/org/springframework/javapoet/Util.java
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* /spring-core-6-1-8-sources-jar/org/springframework/javapoet/ParameterSpec.java
* /spring-core-6-1-8-sources-jar/org/springframework/javapoet/NameAllocator.java
* /spring-core-6-1-8-sources-jar/org/springframework/javapoet/AnnotationSpec.java
* /spring-core-6-1-8-sources-jar/org/springframework/javapoet/TypeVariableName.java
* /spring-core-6-1-8-sources-jar/org/springframework/javapoet/JavaFile.java
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1.948 spring-context 6.1.8

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* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
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/spring-context-6-1-8-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/method/ParameterValidationResult.java

* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/concurrent/ExecutorLifecycleDelegate.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/AbstractErrors.java
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* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/CacheOperationSource.java
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* /spring-context-6-1-8-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
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* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-6-1-8-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
*
/spring-context-6-1-8-sources-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
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* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/expression/CachedExpressionEvaluator.java
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* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/support/CompositeCronField.java
* /spring-context-6-1-8-sources-
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* /spring-context-6-1-8-sources-
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* /spring-context-6-1-8-sources-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/PropertySourceRegistry.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/method/DefaultMethodValidationResult.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/DependsOn.java
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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-6-1-8-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /spring-context-6-1-8-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
* /spring-context-6-1-8-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /spring-context-6-1-8-sources-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-6-1-8-sources-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/MessageSourceResolvable.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-6-1-8-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-6-1-8-sources-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/Task.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /spring-context-6-1-8-sources-

jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
* /spring-context-6-1-8-sources-jar/org/springframework/stereotype/Indexed.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
*
/spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-6-1-8-sources-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-6-1-8-sources-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /spring-context-6-1-8-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /spring-context-6-1-8-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
*
/spring-context-6-1-8-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
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* /spring-context-6-1-8-sources-jar/org/springframework/context/event/EventListenerFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/ScriptEvaluator.java
*
/spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ImportResource.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
* /spring-context-6-1-8-sources-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java

* /spring-context-6-1-8-sources-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ComponentScans.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/Role.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
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* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java

* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/PropertySources.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/context/ApplicationContext.java
* /spring-context-6-1-8-sources-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/AnnotationFormatterFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
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* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/PeriodFormatter.java

* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/Schedules.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-6-1-8-sources-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/Parser.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
* /spring-context-6-1-8-sources-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/Printer.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/GenericXmlApplicationContext.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /spring-context-6-1-8-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-6-1-8-sources-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/support/CompositeCacheManager.java
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* /spring-context-6-1-8-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/NoSuchMessageException.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/SchedulingException.java

* /spring-context-6-1-8-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-6-1-8-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /spring-context-6-1-8-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/Phased.java
*
/spring-context-6-1-8-sources-jar/org/springframework/context/event/ContextClosedEvent.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/config/ContextNamespaceHandler.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/HierarchicalMessageSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-6-1-8-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
*
/spring-context-6-1-8-sources-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/EnableMBeanExport.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
*
/spring-context-6-1-8-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-6-1-8-sources-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /spring-context-6-1-8-sources-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/Formatter.java
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* /spring-context-6-1-8-sources-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ImportAware.java
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 /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
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* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java

* /spring-context-6-1-8-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ImportSelector.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/MapBindingResult.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/ApplicationStartupAware.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-6-1-8-sources-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> 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:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
```

```
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <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><strong>NOTE</strong>: 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 <em>composed annotation</em> 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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Found in path(s):
* /spring-context-6-1-8-sources-jar/org/springframework/ui/ModelMapExtensions.kt
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```
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```

Found in path(s):
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /spring-context-6-1-8-sources-jar/org/springframework/ui/ExtendedModelMap.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/ui/context/ThemeSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /spring-context-6-1-8-sources-jar/org/springframework/ui/context/support/DelegatingThemeSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/EventListener.java

* /spring-context-6-1-8-sources-jar/org/springframework/context/aot/BeanFactoryInitializationAotContributions.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/Async.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/LoggingCacheErrorHandler.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/ui/context/Theme.java
* /spring-context-6-1-8-sources-jar/org/springframework/ui/context/support/SimpleTheme.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/i18n/SimpleLocaleContext.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/CachingConfigurerSupport.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/Caching.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/ScheduledTask.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /spring-context-6-1-8-sources-jar/org/springframework/ui/Model.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/context/aot/RuntimeHintsBeanFactoryInitializationAotProcessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/aot/ContextAotProcessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/aot/CglibClassHandler.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
* /spring-context-6-1-8-sources-jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/context/aot/AotApplicationContextInitializer.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/TypeFilterUtils.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/CacheEvict.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/BindingResult.java

* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/MessageSourceAware.java
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* /spring-context-6-1-8-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
*
 /spring-context-6-1-8-sources-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-6-1-8-sources-jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/config/CacheAdviceParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/CacheManagerExtensions.kt
*
 /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java

* /spring-context-6-1-8-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/annotation/DateTimeFormat.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
*
/spring-context-6-1-8-sources-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/expression/MapAccessor.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /spring-context-6-1-8-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterUtils.java
*
/spring-context-6-1-8-sources-jar/org/springframework/scheduling/annotation/EnableAsync.java
* /spring-context-6-1-8-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-6-1-8-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /spring-context-6-1-8-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
* /spring-context-6-1-8-sources-
jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-6-1-8-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-6-1-8-sources-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-6-1-8-sources-jar/org/springframework/cache/CacheExtensions.kt
* /spring-context-6-1-8-sources-
jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
*
/spring-context-6-1-8-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java

1.949 jetty 12.0.9

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* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ChunkAccumulator.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/NonRetainableByteBuffer.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/jmx/ConnectionStatisticsMBean.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/PathContentSource.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/AsyncContent.java

* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/ContentCopier.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ManagedSelector.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ssl/ALPNProcessor.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/Retainable.java
*
 /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ssl/package-info.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteArrayEndPoint.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/AbstractRetainableByteBuffer.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/ContentSourceConsumer.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/AbstractEndPoint.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ContentSinkSubscriber.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferCallbackAccumulator.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/NetworkTrafficSocketChannelEndPoint.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/CyclicTimeout.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ArrayByteBufferPool.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferAggregator.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/EofException.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferOutputStream.java
*
 /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/Content.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/RetainableByteBuffer.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/ByteBufferChunk.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferOutputStream2.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/FillInterest.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ClientConnectionFactory.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/NegotiatingClientConnection.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/QueuedPool.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ssl/SslConnection.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ByteBufferContentSource.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/RuntimeIOException.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/CyclicTimeouts.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ConnectionStatistics.java
*
 /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/IOResources.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/Transport.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/Connection.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/SelectorManager.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/IncludeExcludeConnectionStatistics.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferAccumulator.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/DatagramChannelEndPoint.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/OutputStreamContentSource.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/IdleTimeout.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/NetworkTrafficListener.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/package-info.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/WriteFlusher.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ChunksContentSource.java
*

/jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/WriterOutputStream.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/BufferedContentSink.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/SocketChannelEndPoint.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/InputStreamContentSource.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/ContentSourceByteBuffer.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/QuietException.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/AbstractConnection.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ContentSourceCompletableFuture.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/NegotiatingClientConnectionFactory.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ClientConnector.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/SelectableChannelEndPoint.java
* /jetty-io-12-0-9-sources-jar/module-info.java
*
/jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/EndPoint.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/ContentSourceString.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferPool.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/MemoryEndPointPipe.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/WriteThroughWriter.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ContentSourceTransformer.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ContentSourcePublisher.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ContentSourceInputStream.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ssl/SslClientConnectionFactory.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ssl/SslHandshakeListener.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/ByteBufferInputStream.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/internal/CompoundPool.java
* /jetty-io-12-0-9-sources-jar/org/eclipse/jetty/io/content/ContentSinkOutputStream.java

1.950 spring-beans 6.1.8

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* The classes in this package make JDBC easier to use and
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* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
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* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
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* </ul>
*
* <p>This package and related packages are discussed in Chapter 9 of
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* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/DataClassRowMapper.java
*
/spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/SqlValue.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/RowMapper.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SimplePropertyRowMapper.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.
  */
```

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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-6-1-8-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /spring-jdbc-6-1-8-sources-

jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
*
/spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
*
/spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.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-6-1-8-sources-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
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* /spring-jdbc-6-1-8-sources-

jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
*
 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/SqlFunction.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/incrementer/MariaDBSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
*
 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
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* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
*
 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/SqlOperation.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
*

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* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/BadSqlGrammarException.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
*
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jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
*
/spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
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/spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/SqlCall.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/UncategorizedSQLException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java

* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
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 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/SqlQuery.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/SqlUpdate.java
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jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
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jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
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jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
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* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
*
 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java

* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/StoredProcedure.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
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 /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/support/SqlBinaryValue.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/support/SqlCharacterValue.java
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jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryRuntimeHints.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/JdbcUtils.java
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 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/object/RdbmsOperation.java
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* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
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* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java

* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
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* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/KeyHolder.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
*
 /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-6-1-8-sources-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-8-sources-jar/org/springframework/jdbc/core/SqlProvider.java
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* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/internal/RoleRunAsToken.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/ServerAuthException.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/SecurityHandler.java
* /jetty-security-12-0-9-sources-jar/module-info.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/spi/package-info.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/DefaultIdentityService.java
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/jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/callback/ObjectCallback.java
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* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/package-info.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/authentication/package-info.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/AbstractLoginService.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/UserIdentity.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/JAASPrincipal.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/callback/AbstractCallbackHandler.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/UserPrincipal.java
*
/jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/authentication/SessionAuthentication.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/HashLoginService.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/AuthenticationState.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/Constraint.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/EmptyLoginService.java
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* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/callback/RequestCallback.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/JAASRole.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/internal/DefaultUserIdentity.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/package-info.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/callback/DefaultCallbackHandler.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/spi/DataSourceLoginModule.java
*
/jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/jaas/callback/RequestParameterCallback.java
* /jetty-security-12-0-9-sources-jar/org/eclipse/jetty/security/UserStore.java

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1.956 micrometer-observation 1.12.6

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1.957 tornado 6.4.1

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Anthony G. Basile
Arvid Picciani
Bobby Bingham
Boris Brezillon
Chris Spiegel
Emil Renner Berthing
Hiltjo Posthuma
Isaac Dunham
Jens Gustedt
Jeremy Huntwork
John Spencer
Justin Cormack
Luca Barbato
Luka Perkov
Michael Forney
Nicholas J. Kain
orc
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  - License: BSD ([license/third_party/asm_license.txt][asm])
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/temporaryVals/FastStoreLoadAnalyzer.kt
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- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
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- Path: js/js.ast
  - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
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- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
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- Path: js/js.parser/src/com/google
  - License: Netscape Public License 1.1 ([license/third_party/rhino_LICENSE.txt][rhino])
  - Origin: Originally part of GWT, (C) 2007-08 Google Inc., distributed under the Apache 2 license. The code is derived from Rhino, (C) 1997-1999 Netscape Communications Corporation, distributed under the Netscape Public License.

- Path: js/js.translator/qunit/qunit.js
  - License: MIT
([license/third_party/qunit_license.txt][qunit])
  - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,

- Path: libraries/stdlib/src/kotlin/collections
  - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
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- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
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  - Origin: Derived from Guava's UnsignedLongs, (C) 2011 The Guava Authors

- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
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- Path: libraries/stdlib/js/src/kotlin/collections

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- Path: libraries/stdlib/js-v1/src/js/long.js
- License: Apache 2 ([license/third_party/closure-compiler_LICENSE.txt][closure-compiler])
- Origin: Google Closure Library, Copyright 2009 The Closure Library Authors

- Path: libraries/stdlib/js-v1/src/js/polyfills.js
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- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
- License: Apache 2 ([license/third_party/assemblyscript_license.txt][assemblyscript])
- Origin: Derived from assemblyscript standard library

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- Path: plugins/lint/lint-api
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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
- License: MIT ([license/third_party/asmble_license.txt][asmble])
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- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
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- Path: libraries/stdlib/wasm/src/kotlin/math/fdlibm/
  - License: SUN ([license/third_party/sun_license.txt][sun])
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- Path: kotlin-native/runtime/src/main/cpp/Utils.cpp
  - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
  - Origin: Derived from boost hash functions, Copyright 2005-2014 Daniel James

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    - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland

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- Path: third-party/annotations/lombok
- License: MIT ([license/third_party/testdata/lombok_license.txt][lombok])
- Origin: Project Lombok, Copyright (C) 2009-2013 The Project Lombok Authors

- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
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- Path: idea/testData/android/lintQuickfix/requiresApi/RequiresApi.java
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- Path: idea/testData/android/lint/IntRange.java
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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
- License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
- Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
- License: Apache 2 ([license/third_party/testdata/dagger_license.txt][dagger])
- Origin: Dagger, Copyright (C) 2013 Square, Inc.

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  - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/target/test-classes/testProject/noArgJpa/src/javax/persistence/Entity.java
  - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Entity.java
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Main Author
---
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---
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Richard Hughes
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Chris Evans (Google)
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Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
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## DOM Level 3 Core Specification v1.0

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Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

****

---

include/GL/gl.h :

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include/GL/wglxext.h :

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1.971 google-api-core 2.19.1

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1.972 proto-plus 1.24.0

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1.974 python-certifi 2024.07.04

1.974.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.975 python-certifi 2024.7.4

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ca-bundle.crt -- Bundle of CA Root Certificates

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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1.976 openssl 3.1.6-r2

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This is a Java port of Daniel Lemire's fast_float project.
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@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this
License.

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You may opt to apply the terms of the ordinary GNU General Public
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

@enumerate a
@item
Accompany the work with the complete corresponding

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

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

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

@item
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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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Library'' must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
 is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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@item
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@subheading END OF TERMS AND CONDITIONS

@page
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@end
smallexample

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Ty Coon, President of Vice
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entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
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years, to give any third party, for a charge no more than your
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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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the ``copyright'' line and a pointer to where the full notice is found.

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and a brief idea of what it does.}
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@end smallexample

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

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

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1989
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1.991 python-setuptools 71.1.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.994 simple launcher 1.1.0.14

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
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modified version without making your changes open source. The
GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar

- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
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- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ==============================
Installing and Using Setuptools
==============================

.. contents:: **Table of Contents**

Installation Instructions

Windows
=======

Install setuptools using the provided ``.exe`` installer. If you've previously
installed older versions of setuptools, please delete all ``setuptools*.egg``
and ``setuptools.pth`` files from your system's ``site-packages`` directory
(and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using

an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer
version.

Once installation is complete, you will find an ``easy_install.exe`` program in
your Python ``Scripts`` subdirectory. Be sure to add this directory to your
``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems
==========

Install setuptools using the provided source RPM. The included ``.spec`` file
assumes you are installing using the default ``python`` executable, and is not
specific to a particular Python version. The ``easy_install`` executable will
be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python
installation's default ``site-packages`` directory (and ``$prefix/bin`` for
scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other
==========

1. Download the appropriate egg for your version of Python (e.g.
``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``.
Setuptools will install itself using the matching version of Python (e.g.
``python2.4``), and will place the ``easy_install`` executable in the
default location for installing Python scripts (as determined by the
standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or
your default distutils installation locations for libraries and scripts, you
may include EasyInstall command-line options such as ``--prefix``,
``--install-dir``, and so on, following the ``.egg`` filename
on the same
command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section

on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
 for the **Windows** Python found at ``C:\\Python24``::

ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_

* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike
"Code Bear" Taylor) contributed their time and stress as guinea pigs for the
use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
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to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose
Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
    text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>

  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
  * Provide a type alias field ValueType
on EnumTypeWrapper
  * Match service argument names to abstract interface

1.997 allure-model 2.28.0

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.1002 protobuf 5.27.3

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Contribors to oauth2client / google-auth

Maintainers

* [Jon Wayne Parrott](https://github.com/jonparrott)
* [Danny Hermes](https://github.com/dhermes)
* [Brian Watson](https://github.com/bjwatson)

Previous maintainers:

* [Nathaniel Manista](https://github.com/nathanielmanistaatgoogle)
* [Craig Citro](https://github.com/craigcitro)
* [Joe Gregorio](https://github.com/jcgregorio)

Contributors

This list is generated from git commit authors.

* aalexand <aalexand@google.com>
* Aaron <aaronwinter@users.noreply.github.com>
* Adam Chainz <me@adamj.eu>
* ade@google.com

* Alexandre Vivien <alx.vivien@gmail.com>
* Ali Afshar <afshar@google.com>
* Andrzej Pragacz <apragacz@o2.pl>
* api.nickm@gmail.com
* Ben Demaree <bendemaree@gmail.com>
* Bill Prin <waprin@gmail.com, waprin@google.com>
* Brendan McCollam <brendan@mccoll.am, bmccollam@uchicago.edu>
* Craig Citro <craigcitro@gmail.com, craigcitro@google.com>
* Dan Ring <dfring@gmail.com>
* Daniel Hermes <dhermes@google.com, daniel.j.hermes@gmail.com>
*
Danilo Akamine <danilowz@gmail.com>
* daryl herzmann <akrherz@iastate.edu>
* dlorenc <lorenc.d@gmail.com>
* Dominik Miedziski <dominik@mdzn.pl>
* dr. Kertsz Csaba-Zoltn <cskertesz@gmail.com>
* Dustin Farris <dustin@dustinfarris.com>
* Eddie Warner <happyspace@gmail.com>
* Edwin Amsler <EdwinGuy@GMail.com>
* elibixby <elibixby@google.com>
* Emanuele Pucciarelli <ep@acm.org>
* Eric Koleda <eric.koleda@google.com>
* Frederik Creemers <frederikcreemers@gmail.com>
* Guido van Rossum <guido@google.com>
* Harsh Vardhan <harshvd95@gmail.com>
* Herr Kaste <thdz.x@gmx.net>
* INADA Naoki <inada-n@klab.com>
* JacobMoshenko <moshenko@google.com>
* Jay Lee <jay0lee@gmail.com>
* Jed Hartman <jhartman@google.com>
* Jeff Terrace <jterrace@gmail.com, jterrace@google.com>
* Jeffrey Sorensen <sorensenjs@users.noreply.github.com>
* Jeremi Joslin <jeremi@collabspot.com>
* Jin Liu <liujin@google.com>
* Joe Beda <jbeda@google.com>
* Joe Gregorio <jcgregorio@google.com, joe.gregorio@gmail.com>
*
Johan Euphrosine <proppy@google.com>
* John Asmuth <jasmuth@gmail.com, jasmuth@google.com>
* John Vandenberg <jayvdb@gmail.com>
* Jon Wayne Parrott <jon.wayne.parrott@gmail.com, jonwayne@google.com>
* Jose Alcerreca <jalc@google.com>
* KCs <cskertesz@gmail.com>
* Keith Maxwell <keith.maxwell@gmail.com>
* Ken Payson <kpayson@google.com>
* Kevin Regan <regank@google.com>
* lraccomando <lraccomando@gmail.com>
* Luar Roji <cyberplant@users.noreply.github.com>

* Luke Blanshard <leadpipe@google.com>
* Marc Cohen <marccohen@google.com>
* Mark Pellegrini <markpell@google.com>
* Martin Trigaux <mat@odoo.com>
* Matt McDonald <mmcdonald@google.com>
* Nathan Naze <nanaze@gmail.com>
* Nathaniel Manista <nathaniel@google.com>
* Orest Bolohan <orest@google.com>
* Pat Ferate <pferate@gmail.com>
* Patrick Costello <pcostello@google.com>
* Rafe Kaplan <rafek@google.com>
* rahulpaul@google.com <rahulpaul@google.com>
* RM Saksida <rsaksida@gmail.com>
* Robert Kaplow <rkaplow@google.com>
* Robert Spies
 <wilford@google.com>
* Sergei Trofimovich <siarheit@google.com>
* sgomes@google.com <sgomes@google.com>
* Simon Cadman <src@niftiestsoftware.com>
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* Sbastien de Melo <sebastien.de-melo@ubicast.eu>
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* Tony Aiuto <aiuto@google.com>
* Travis Hobrla <thobrla@google.com>
* Veres Lajos <vlajos@gmail.com>
* Vivek Seth <vivekseth.m@gmail.com>
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1.1004 idna 3.7

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1.1005 pyasn1-modules 0.4.0

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1.1006 wheel 0.44.0

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1.1007 typing-extensions 4.12.2

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became

Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.1009 google-api-python-client 2.140.0

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Source Code

The project maintains the following source code repositories:

* https://github.com/jakartaee/jaf-api
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