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1.315 jctools-core 4.0.5

1.315.1 Available under license

1.316 spring-beans 6.1.10

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1.317 spring-framework 6.1.10

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1.318 spring-aspects 6.1.10

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1.319 spring-tx 6.1.10

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1.320 spring-data-commons 3.2.7

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1.321 spring-context 6.1.10

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1.322 hibernate 6.4.9.Final

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1.323 spring-web 6.1.10

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1.324 spring-web-mvc 6.1.10

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1.325 spring-jdbc 6.1.10

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1.326 spring-aop 6.1.10

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1.328 tomcat 10.1.25
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1.329 spring-data-jpa 3.2.7
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1.330 spring-expression 6.1.10
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1.331 netty-resolver-dns 4.1.111.Final
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1.332 netty-codec-socks 4.1.111.Final
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1.333 netty-transport-classes-epoll 4.1.111.Final
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1.334 netty-transport 4.1.111.Final
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1.335 netty-handler-proxy 4.1.111.Final
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1.337 netty-resolver 4.1.111.Final
1.337.1 Available under license
1.338 netty-codec-http 4.1.111.Final
1.338.1 Available under license
1.339 netty-transport-native-unix-common 4.1.111.Final
1.339.1 Available under license
1.340 netty-codec 4.1.111.Final
1.340.1 Available under license
1.341 netty-codec-dns 4.1.111.Final
1.341.1 Available under license
1.342 importlib-metadata 8.0.0
1.342.1 Available under license
1.343 bridgeutils 1.36.1-r19
1.343.1 Available under license
1.344 tomcat-embed-el 10.1.25
1.344.1 Available under license
1.345 tomcat-embed-websocket 10.1.25
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1.346 micrometer-core 1.12.7

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1.347 micrometer-jakarta9 1.12.7

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1.348 commons-fileupload 10.1.25

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1.350 openssl 3.1.6-r2

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1.351 commons-lang3 3.13.0

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1.353 jaraco.text 3.12.1

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1.354 typeguard 4.3.0

1.354.1 Available under license

1.355 libcrypto3 3.1.6-r2

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1.356 libintl 0.22.3-r0

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1.357 utmps-libs 0.1.2.2-r0

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1.358 ssl-client 1.36.1-r19

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1.359 libssl3 3.1.6-r2

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1.367 spring-aop 6.1.10
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1.368 spring-web 6.1.10
1.368.1 Available under license
1.369 importlib-resources 6.1.1-r0
1.369.1 Available under license
1.370 jinja 3.1.2
1.370.1 Available under license
1.371 simple launcher 1.1.0.14
1.371.1 Available under license
1.372 platformdirs 4.2.2
1.372.1 Available under license
1.373 importlib-resources 6.4.0
1.373.1 Available under license
1.374 typing-extensions 4.12.2
1.374.1 Available under license
1.375 importlib-metadata 4.11.1
1.375.1 Available under license
1.376 cglib 6.1.10
1.376.1 Available under license
1.377 activation 2.1.3
1.377.1 Available under license
1.378 hibernate-commons-annotations 6.0.6.Final
1.378.1 Available under license
1.379 micrometer-registry-prometheus 1.12.7
1.379.1 Available under license
1.380 micrometer-commons 1.12.7
1.380.1 Available under license
1.381 jackson-datatype-jdk8 2.15.4
1.381.1 Available under license
1.382 jackson-datatype-jsr310 2.15.4
1.382.1 Available under license
1.383 markupsafe 2.1.5
1.383.1 Available under license
1.384 spring-boot 3.2.7
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1.385 byte-buddy 1.14.17

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1.386 micrometer-core 1.12.7

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1.387 micrometer-jakarta9 1.12.7

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1.388 spring-data-commons 3.2.7

1.388.1 Available under license

1.389 micrometer-observation 1.12.7

1.389.1 Available under license

1.390 jackson-module-parameter-names 2.15.4

1.390.1 Available under license

1.391 more-itertools 9.1.0

1.391.1 Available under license

1.392 simpleclient_servlet_common 0.16.0

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1.393 error_prone_annotations 2.23.0

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1.394 simpleclient-servlet 0.16.0

1.394.1 Available under license

1.395 idna 15.0.0

1.395.1 Available under license

1.396 sh 1.14.3

1.396.1 Available under license

1.397 activation-api 2.1.3

1.397.1 Available under license

1.398 visual-studio-runtime 10.0

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1.399 visual-studio-runtime 15.9.9(VC++ 2017)

1.399.1 Available under license

1.400 spring-data-jpa 3.2.7

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1.401 json-simple 1.1.1

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1.402 javax-activation 2.1.3

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1.403 pcre2 10.42-r2

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1.404 jaxb-api 2.3.1

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- 1.405 zstd 1.5.5**
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- 1.406 more-itertools 8.8.0**
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- 1.407 pyproject-hooks 1.0.0**
 - 1.407.1 Available under license
- 1.408 truststore 0.8.0**
 - 1.408.1 Available under license
- 1.409 cachecontrol 0.13.1**
 - 1.409.1 Available under license
- 1.410 json-java 0.0.20131108.vaadin1**
 - 1.410.1 Available under license
- 1.411 spring-boot-actuator-autoconfigure 3.2.7**
 - 1.411.1 Available under license
- 1.412 spring-orm 6.1.10**
 - 1.412.1 Available under license
- 1.413 spring-boot-configuration-metadata 3.2.7**
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- 1.414 spring-boot-actuator 3.2.7**
 - 1.414.1 Available under license
- 1.415 spring-boot-properties-migrator 3.2.7**
 - 1.415.1 Available under license
- 1.416 spring-boot-autoconfigure 3.2.7**
 - 1.416.1 Available under license

1.1 libjpeg 6b

1.1.1 Notifications :

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

1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

=====

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

Serious users of this software (particularly those incorporating it into

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

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

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

DOCUMENTATION

ROADMAP

=====

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc	How to configure and install the IJG software.
usage.doc	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.doc).
wizard.doc	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.

Programmer and internal

documentation:

libjpeg.doc	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.doc	Overview of the JPEG library's internal structure.
filelist.doc	Road map of IJG files.
coderrules.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.

LEGAL ISSUES

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In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to

acknowledge us.

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

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

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

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

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of

CompuServe Incorporated."

REFERENCES

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We

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

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

A somewhat less technical, more

leisurely introduction to JPEG can be found in

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

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

The

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

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://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](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/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
PBPLUS 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 PBPLUS/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 ini4j 0.5.4

1.2.1 Available under license :

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

<!--

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-->

Found in path(s):

- * /ini4j-0-5-4-sources-jar/org/ini4j/package.html
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/package.html

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

/*

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- */

Found in path(s):

- * /ini4j-0-5-4-sources-jar/org/ini4j/Config.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/CommonMultiMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Registry.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicRegistryKey.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Reg.java
- *
- /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniSource.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractProfileBuilder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Persistable.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniHandler.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicProfile.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/CommentedMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniFormatter.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/BeanTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicOptionMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicRegistry.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/MultiMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/UnicodeInputStreamReader.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractFormatter.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsBuilder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsFormatter.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Profile.java
- *
- /ini4j-0-5-4-sources-jar/org/ini4j/IniPreferencesFactory.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/ServiceFinder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/InvalidFileFormatException.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/BeanAccess.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsHandler.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/IniPreferences.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicMultiMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Wini.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/BasicProfileSection.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractBeanInvocationHandler.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/HandlerBase.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/TypeValuesPair.java

- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/Warnings.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/RegEscapeTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/OptionMap.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/RegBuilder.java
- *
- /ini4j-0-5-4-sources-jar/org/ini4j/spi/EscapeTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/WinEscapeTool.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/ConfigParser.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/spi/IniBuilder.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Configurable.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Ini.java
- * /ini4j-0-5-4-sources-jar/org/ini4j/Options.java

1.3 json-simple 1.1.1

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1.4 googleapis-common-protos 0.0.3

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Found in path(s):

- * /googleapis-common-protos-0-0-3-sources-jar/google/rpc/status.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/logging/type/log_severity.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/consumer.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/log.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/type/latlng.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/annotations.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/http.proto
- * /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
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/context.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/metric.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/distribution.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/type/money.proto
- * /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
- * /googleapis-common-protos-0-0-3-sources-jar/google/type/color.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/logging/type/http_request.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/usage.proto
- *
- /googleapis-common-protos-0-0-3-sources-jar/google/api/auth.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/longrunning/operations.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/documentation.proto
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/monitored_resource.proto
- * /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
- * /googleapis-common-protos-0-0-3-sources-jar/google/api/billing.proto

1.5 failureaccess 1.0.1

1.6 latencyutils 2.0.3

1.7 latencyutils 2.0.3

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1.8 kxml 2.3.0

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Found in path(s):

- * /kxml2-2-3-0-sources-jar/org/kxml2/kdom/Node.java
- * /kxml2-2-3-0-sources-jar/org/kxml2/io/KXmlSerializer.java
- * /kxml2-2-3-0-sources-jar/org/kxml2/wap/WbxmlSerializer.java
- * /kxml2-2-3-0-sources-jar/org/kxml2/kdom/Document.java
- * /kxml2-2-3-0-sources-jar/org/kxml2/wap/Wbxml.java
- * /kxml2-2-3-0-sources-jar/org/kxml2/io/KXmlParser.java
- * /kxml2-2-3-0-sources-jar/org/kxml2/kdom/Element.java

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- * such as OPAQUE.

*/

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- * /kxml2-2-3-0-sources-jar/org/kxml2/wap/WbxmlParser.java

1.9 googleapis-common-protos 0.0.3

1.10 ehcache 2.6.11

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1.11 giflib 5.2.1

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1.12 java-nats-streaming 2.2.3

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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

```

1.13 ksoap 2.3.0

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1.14 hdrhistogram 2.1.12

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Manifest-Version: 1.0

Bnd-LastModified: 1575980548657

Build-Jdk: 1.8.0_232

Built-By: gil

Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.

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Bundle-ManifestVersion: 2

Bundle-Name: HdrHistogram

Bundle-SymbolicName: org.hdrhistogram.HdrHistogram

Bundle-Version: 2.1.12

Created-By: Apache Maven Bundle Plugin

Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagedarray;version="2.1.12"

Implementation-Title:

HdrHistogram

Implementation-Vendor-Id: org.hdrhistogram

Implementation-Version: 2.1.12

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

Specification-Title: HdrHistogram

Specification-Version: 2.1.12

Tool: Bnd-2.3.0.201405100607

Found in path(s):

* /hdrhistogram-2-1-12-1-jar/META-INF/MANIFEST.MF

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1.15 xerces-j 2.12.2

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1.17 android-json 0.0.20131108.vaadin1

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 */
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Found in path(s):

```
* /android-json-0-0-20131108-vaadin1-sources-1-jar/org/json/JSONArray.java
* /android-json-0-0-20131108-vaadin1-sources-1-jar/org/json/JSONStringer.java
* /android-json-0-0-20131108-vaadin1-sources-1-jar/org/json/JSONObject.java
* /android-json-0-0-20131108-vaadin1-sources-1-jar/org/json/JSONTokener.java
*
* /android-json-0-0-20131108-vaadin1-sources-1-jar/org/json/JSON.java
* /android-json-0-0-20131108-vaadin1-sources-1-jar/org/json/JSONException.java
```

1.18 commons-lang3 3.11

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1.19 asm 8.0.1

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* /asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/package.html

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```
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* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ConstantDynamic.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/CurrentFrame.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/MethodWriter.java  
*  
/asm-8-0-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/RecordComponentVisitor.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Frame.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Type.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/TypeReference.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ModuleVisitor.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Handle.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Opcodes.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Handler.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Constants.java  
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* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Attribute.java  
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*  
/asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassReader.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Edge.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/ModuleWriter.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/FieldWriter.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/SymbolTable.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java  
* /asm-8-0-1-sources-2-jar/org/objectweb/asm/Context.java
```

- * /asm-8-0-1-sources-2-jar/org/objectweb/asm/ByteVector.java
- * /asm-8-0-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
- * /asm-8-0-1-sources-2-jar/org/objectweb/asm/RecordComponentWriter.java
- * /asm-8-0-1-sources-2-jar/org/objectweb/asm/TypePath.java

1.20 unescape 1.1.6.RELEASE

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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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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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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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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Bit Twiddling Hacks

By Sean Eron Anderson
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<https://github.com/santoshsahoo/nbench> (mirror of the same code)

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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```

<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" />
</ItemGroup>
</Project>

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1.26 commons-csv 1.9.0

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1.27 more-itertools 8.12.0

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1.28 alpine-keys 2.4-r1

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1.29 hdrhistogram 2.1.12

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Found in path(s):

```
* /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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* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogram.java
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogram.java
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```

```

package org.HdrHistogram;

```

```

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

```

```

Found in path(s):
* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template
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* package-info.java
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* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/package-info.java

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* /hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/WriterReaderPhaser.java

1.30 hikaricp 4.0.3

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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/PoolEntry.java

* /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
*
/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/PropertyElf.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java
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* /hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
* /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
*
/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/util/ClockSource.java
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jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.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

1.31 sizeof-agent 1.0.1

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1.32 jakarta-inject-api 2.0.1

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1.33 ordered-set 4.1.0

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1.34 asm 9.3

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*
/asm-9-3-sources-jar/org/objectweb/asm/ClassReader.java
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* /asm-9-3-sources-jar/org/objectweb/asm/MethodTooLargeException.java
* /asm-9-3-sources-jar/org/objectweb/asm/ConstantDynamic.java
* /asm-9-3-sources-jar/org/objectweb/asm/ClassWriter.java
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* /asm-9-3-sources-jar/org/objectweb/asm/TypePath.java
* /asm-9-3-sources-jar/org/objectweb/asm/MethodVisitor.java
* /asm-9-3-sources-jar/org/objectweb/asm/Handle.java
* /asm-9-3-sources-jar/org/objectweb/asm/SymbolTable.java
* /asm-9-3-sources-jar/org/objectweb/asm/Constants.java
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- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
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- /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java

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- *
- /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariDataSource.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariConfigMXBean.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTrackerFactory.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariPoolMXBean.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
- * /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
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* /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
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/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/FastList.java
* /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariConfig.java
* /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
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* /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
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* /hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java

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1.37 hikaricp 5.0.1

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* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
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/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
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* /hikaricp-5-0-1-sources-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
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```
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~
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-->
<![CDATA[
Comments to: <a href="mailto:bean-validation-dev@eclipse.org">bean-validation-dev@eclipse.org</a>.<br>
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Use is subject to <a href="{@docRoot}/doc-files/speclicense.html" target="_top">EFSL</a>; this spec is based on
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```

Found in path(s):

* /jakarta-validation-api-3-0-2-sources-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

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```
/*
 * Jakarta Bean Validation API
 *
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 */
```

Found in path(s):

```
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ValidateUnwrappedValue.java
* /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
- * /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertFalse.java
- * /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/Unwrapping.java
- * /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

1.41 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.42 packaging 21.3

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Source Code

The project maintains the following source code repositories:

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

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1.46 simpleclient 0.16.0

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* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12>

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 *
 * Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10
 */
```

Found in path(s):

* /simpleclient-0-16-0-sources-jar/io/prometheus/client/Striped64.java

1.47 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, Exposition, 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.prometheus.client.exemplars.tracer.common";version="0.16.0"

Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prometheus.client.exemplars.tracer.common;version="[0.16,1)"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /simpleclient-tracer-otel-0-16-0-jar/META-INF/MANIFEST.MF

1.48 simpleclient-common 0.16.0

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1.49 simpleclient_tracer_otel_agent 0.16.0

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1.50 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):

* /simpleclient-hotspot-0-16-0-jar/META-INF/MANIFEST.MF

1.51 simpleclient_servlet_common 0.16.0

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Found in path(s):

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1.52 simpleclient-servlet 0.16.0

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Found in path(s):

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1.53 distlib 0.3.6

1.53.1 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 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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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
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
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1.55 simpleclient-common 0.16.0

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Manifest-Version: 1.0

Bnd-LastModified: 1655327905690

Build-Jdk: 11.0.15

Built-By: fabian

Bundle-Description: Common code used by various modules of the Simpleclient.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Simpleclient Common

Bundle-SymbolicName: io.prometheus.simpleclient_common

Bundle-Version: 0.16.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheus.client";version="0.16.0"

Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.client.exemplars;version="[0.16,1)"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /simpleclient-common-0-16-0-2-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /simpleclient-common-0-16-0-2-jar/META-INF/maven/io.prometheus/simpleclient_common/pom.xml

1.56 simpleclient_tracer_otel 0.16.0

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1.57 simpleclient_tracer_otel_agent 0.16.0

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1.58 simpleclient 0.16.0

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* /simpleclient-0-16-0-sources-3-jar/io.prometheus/client/DoubleAdder.java

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* /simpleclient-0-16-0-sources-3-jar/io/prometheus/client/Striped64.java

1.59 objenesis 3.3

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1.60 bcel 6.7.0

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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/web-common_4_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_2.xsd

* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_client_1_1.xsd
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/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_0.xsd
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Used in: user

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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_3.dtd

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- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/package.html
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/package.html

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- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_6_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_6_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_10.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_client_2_0.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_1.xsd
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_2_0.xsd

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- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_fr.properties
- * /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
- * /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings.properties
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CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):

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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.org/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,jakarta.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",jakarta.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.servlet.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

1.62 servlet-api 6.0.0

1.62.1 Available under license :

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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
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
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- 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
- javaee_8.xsd
- web-app_4_0.xsd
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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
- web-fragment_5_0.xsd
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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

may be obtained from <http://java.sun.com/xml/ns/javaee/>

1.64 ttf-liberation 2.1.5-r2

1.64.1 Available under license :

```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
```

```
pkgname=ttf-freefont
```

```
pkgver=20120503
```

```
pkgrel=2
```

```
pkgdesc="A set of free high-quality TrueType fonts covering the UCS character set"
```

```
url="https://nongnu.org/freefont/"
```

```
arch="noarch"
license="GPL-3.0-or-later with exception"
options="!check" # No test suite.
depends="fontconfig encodings mkfontdir mkfontscale"
makedepends="font-util-dev"
source="https://ftp.gnu.org/gnu/freefont/freefont-ttf-$pkgver.zip"
builddir="$srcdir/freefont-$pkgver"
```

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1.65 snake-yaml 2.6

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1.66 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://www.google.com>"

Bundle-DocURL: <https://github.com/google/gson/gson>

Bundle-License: "Apache-2.0";link="<https://www.apache.org/licenses/LICENSE-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:git:<https://github.com/google/gson.git/gson>",developer-connection="scm:git:<https://github.com/google/gson.git/gson>"

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.google.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;version="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):

* /gson-2-10-1-jar/META-INF/MANIFEST.MF

1.67 commons-fileupload 1.5

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1.68 tenacity 8.2.2

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1.69 msgpack 1.0.5

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1.70 error_prone_annotations 2.18.0

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Found in path(s):

* /error-prone-annotations-2-18-0-1-jar/META-

INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.71 zstd-jni 1.5.5-1

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1.79 python-setuptools 67.7.2

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1.80 simpleclient-hotspot 0.16.0

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Found in path(s):

* /simpleclient-hotspot-0-16-0-2-jar/META-INF/maven/io.prometheus/simpleclient_hotspot/pom.xml

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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):

* /simpleclient-hotspot-0-16-0-2-jar/META-INF/MANIFEST.MF

1.81 swagger-annotations 2.2.9

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1.82 libucontext 1.2-r2

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1.83 chardet 5.1.0

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1.86 wget 1.21.4-r0

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1.87 servlet-api 6.0.0

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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_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
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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- jakarta_web-services_client_2_0.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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1.90 bzip2 1.0.8-r6

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.91 libunistring 1.1-r2

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1.92 libffi 3.4.4-r3

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1.93 musl-obstack 1.2.3-r2

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1.94 libc-utils 0.7.2-r5

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```

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1.95 commons-io 2.12.0

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1.96 python-requests 2.31.0

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fontconfig/fc-case/CaseFolding.txt

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fontconfig/src/fcatomic.h

/*

* Mutex operations. Originally copied from HarfBuzz.

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fontconfig/src/fcfoundry.h

/*

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*/

fontconfig/src/fcmd5.h

/*

* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.

*

* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.

*

* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
* as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.

*/

fontconfig/src/fcmutex.h

/*

* Atomic int and pointer operations. Originally copied from HarfBuzz.

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- */

fontconfig/src/ftglue.[ch]

```
/* ftglue.c: Glue code for compiling the OpenType code from
 *      FreeType 1 using only the public API of FreeType 2
 *
 * By David Turner, The FreeType Project (www.freetype.org)
 *
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 *
 * =====
 *
 * the OpenType
 * parser codes was originally written as an extension to
 * FreeType 1.x. As such, its source code was embedded within the library,
 * and used many internal FreeType functions to deal with memory and
 * stream i/o.
 *
 * When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
 * which basically means that some macro tricks were performed in order to
 * directly access FT2 _internal_ functions.
 *
 * these functions were never part of FT2 public API, and _did_ change between
```

- * various releases. This created chaos for many users: when they upgraded the
- * FreeType library on their system, they couldn't run Gnome anymore since
- * Pango refused to link.
- *
- * Very fortunately, it's possible to completely avoid this problem because
- * the FT_StreamRec and FT_MemoryRec structure types, which describe how
- * memory and stream implementations interface with the rest of the font
- * library, have always been part of the public API, and never changed.
- *
- * What we do
- thus is re-implement, within the OpenType parser, the few
- * functions that depend on them. This only adds one or two kilobytes of
- * code, and ensures that the parser can work with _any_ version
- * of FreeType installed on your system. How sweet... !
- *
- * Note that we assume that Pango doesn't use any other internal functions
- * from FreeType. It used to in old versions, but this should no longer
- * be the case. (crossing my fingers).
- *
- * - David Turner
- * - The FreeType Project (www.freetype.org)
- *
- * PS: This "glue" code is explicitly put in the public domain
- */

1.98 iputils-ping 20221126-r2

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1.99 j2objc-annotations 2.8

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```

*/

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```
* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/OnDealloc.java
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* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/RetainedWith.java
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*/
```

Found in path(s):

```
* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/Weak.java
* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java
```

1.100 tre 0.8.0-r2

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1.101 libcap 2.69-r1

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1.102 htop 3.2.2-r1

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1.109 jackson 2.15.2

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Jackson JSON processor

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

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1.110 pyparsing 3.1.0

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1.113 springdoc-openapi-starter-webmvc-ui

2.1.0

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jar/org/springdoc/core/providers/SpringDocJavadocProvider.java
* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/service/GenericResponseService.java
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* /springdoc-openapi-starter-common-2-1-0-sources-
jar/org/springdoc/core/customizers/DataRestDelegatingMethodParameterCustomizer.java
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 * /springdoc-openapi-starter-common-2-1-0-sources-
 jar/org/springdoc/core/customizers/ServerBaseUrlCustomizer.java
 * /springdoc-openapi-starter-common-2-1-0-sources-
 jar/org/springdoc/core/providers/RepositoryRestResourceProvider.java
 * /springdoc-openapi-starter-common-2-1-0-sources-
 jar/org/springdoc/core/conditions/MultipleOpenApiSupportCondition.java

```

* /springdoc-openapi-starter-common-2-1-0-sources-
jar/org/springdoc/core/parsers/KotlinCoroutinesReturnTypeParser.java
* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/providers/ActuatorProvider.java
* /springdoc-openapi-starter-common-2-1-0-sources-
jar/org/springdoc/core/customizers/ActuatorOpenApiCustomizer.java
*
/springdoc-openapi-starter-common-2-1-0-sources-
jar/org/springdoc/core/configuration/SpringDocFunctionCatalogConfiguration.java
* /springdoc-openapi-starter-common-2-1-0-sources-
jar/org/springdoc/core/providers/SpringDataWebPropertiesProvider.java
* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/fn/builders/apiresponse/Builder.java
* /springdoc-openapi-starter-common-2-1-0-sources-
jar/org/springdoc/core/customizers/OpenApiHateoasLinksCustomizer.java
* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/annotations/RouterOperation.java
* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/fn/builders/exampleobject/Builder.java
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*
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* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/fn/builders/servervariable/Builder.java
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* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/fn/RouterFunctionData.java
*
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* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/fn/builders/server/Builder.java
* /springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/utils/Constants.java
*
/springdoc-openapi-starter-common-2-1-0-sources-jar/org/springdoc/core/fn/AbstractSpringdocRouteBuilder.java
* /springdoc-openapi-starter-common-2-1-0-sources-

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1.115 springdoc-openapi-starter-webmvc-api

2.1.0

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1.123 jackson-jr-annotation-support 2.15.2

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1.124 jackson-jr-objects 2.15.2

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1.125 hibernate-validator 8.0.1.Final

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1.126 jboss-logging 3.5.3.Final

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1.127 pyparsing 3.1.1

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Found in path(s):

* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/AutoCloseableExecutorService.java

* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/SimpleThreadFactory.java

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/*

* This file is part of ClassGraph.

*

* Author: Harith Elrufaie

*

* Hosted at: <https://github.com/classgraph/classgraph>

*

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* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FelixClassLoaderHandler.java

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* Author: Luke Hutchison

*

* Hosted at: <https://github.com/classgraph/classgraph>

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Found in path(s):

```

* /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassGraphClassLoader.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationParameterValue.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/MethodTypeSignature.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/Resource.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/scanspec/ScanSpec.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationInfo.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
*
  /classgraph-4-8-158-sources-jar/io/github/classgraph/MethodParameterInfo.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/MappableInfoList.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ModuleInfoList.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/BaseTypeSignature.java

```



```

* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java
*
/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/Classfile.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElement.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/Scanner.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/utils/CollectionUtils.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ModuleReaderProxy.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/PackageInfo.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassGraphException.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
*
/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElementDir.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ModulePathInfo.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/InfoList.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ScanResult.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/HasName.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONArray.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ArrayTypeSignature.java
*
/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSCClassLoaderHandler.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassGraph.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/FieldInfoList.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/types/ParseException.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ScanResultObject.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationEnumValue.java
*
/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/types/Parser.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/utils/LogNode.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/TypeArgument.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java

```

- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/VersionFinder.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/recycler/Resettable.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationInfoList.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassMemberInfo.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/ProxyingInputStream.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ArrayClassInfo.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/MethodInfo.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
- *
- /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/types/TypeUtils.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/StringUtils.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationParameterValueList.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassRefTypeSignature.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElementZip.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/TypeParameter.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
- *
- /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/Id.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/FastPathResolver.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElementModule.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONParser.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/TypeSignature.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/JarUtils.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/FieldInfo.java
- *
- /classgraph-4-8-158-sources-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/PackageInfoList.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/FileUtils.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ModuleInfo.java
- * /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptChecker.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassTypeSignature.java
- * /classgraph-4-8-158-sources-jar/io/github/classgraph/ClassInfoList.java
- *

```

/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
* /classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/UnoOneJarClassLoaderHandler.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/scanspec/AcceptReject.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/MethodInfoList.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/TypeVariableSignature.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ModuleRef.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/ClassFields.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/TypeResolutions.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/urls/URLPathEncoder.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/ReferenceTypeSignature.java
*
/classgraph-4-8-158-sources-jar/io/github/classgraph/ClassInfo.java
* /classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationClassRef.java
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```

* /classgraph-4-8-158-sources-jar/META-INF/maven/io.github.classgraph/classgraph/pom.xml
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*
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* /classgraph-4-8-158-sources-jar/io/github/classgraph/CloseableByteBuffer.java

```
* /classgraph-4-8-158-sources-  
jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java  
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/reflection/ReflectionDriver.java  
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java  
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/reflection/JVMDriverReflectionDriver.java  
* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/reflection/StandardReflectionDriver.java  
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*  
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*  
* With contributions from @cpierceworld (#414)  
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* Hosted at: https://github.com/classgraph/classgraph  
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Found in path(s):

```
* /classgraph-4-8-158-sources-  
jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereLibertyClassLoaderHandler.java  
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 *
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 * Author: Michael J. Simons
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* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java

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* This file is part of ClassGraph.

*

* Author: Luke Hutchison (luke.hutch@gmail.com)

*

* Hosted at: <https://github.com/classgraph/classgraph>

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* This file is part of ClassGraph.

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* Author: Sergey Beshpalov

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*

* Author: Luke Hutchison

*

* Hosted at: <https://github.com/classgraph/classgraph>

*

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* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java

* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fileslice/PathSlice.java

* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java

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* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java

*

/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fileslice/FileSlice.java

* /classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java

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1.129 guava 32.1.2-jre

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1.130 autocommand 2.2.2

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1.131 commons-lang3 3.13.0

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- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/templatereolver/StringTemplateResolver.java
- * /thymeleaf-3-1-2-release-sources-
- jar/org/thymeleaf/standard/processor/StandardInlineEnablementTemplateBoundariesProcessor.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/templateparser/text/TextParsingElementUtil.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/engine/IThrottledTemplateWriterControl.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/processor/StandardEachTagProcessor.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/expression/IExpressionObjectFactory.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/expression/ExecutionInfo.java
- *
- /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/processor/StandardFragmentTagProcessor.java
- * /thymeleaf-3-1-2-release-sources-
- jar/org/thymeleaf/standard/processor/AbstractStandardExpressionAttributeTagProcessor.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/exceptions/TemplateProcessingException.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/engine/TextElementDefinition.java
- * /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/ConditionalExpression.java

```

* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/processor/StandardUnlessTagProcessor.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/templateparser/text/CommentProcessorTextHandler.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/GenericTokenExpression.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/context/StandardEngineContextFactory.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/processor/StandardUtextTagProcessor.java
*
/thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/BooleanTokenExpression.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/templateparser/text/ParsingLocatorUtil.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/util/ClassLoaderUtils.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/expression/Sets.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/util/PatternUtils.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/engine/CommentStructureHandler.java
* /thymeleaf-3-1-2-release-sources-
jar/org/thymeleaf/standard/expression/StandardExpressionExecutionContext.java
* /thymeleaf-3-1-2-release-sources-
jar/org/thymeleaf/standard/processor/StandardRemovableAttributeTagProcessor.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/templateparser/text/TextParsingCommentUtil.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/expression/Ids.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/templateparser/text/TextParseException.java
*
/thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/engine/StandaloneElementTag.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/context/IWebContext.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/IStandardVariableExpression.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/util/IWritableCharSequence.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/OGNLShortcutExpression.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/processor/StandardRefAttributeTagProcessor.java
* /thymeleaf-3-1-2-release-sources-
jar/org/thymeleaf/standard/processor/StandardConditionalFixedValueTagProcessor.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/processor/element/IElementTagProcessor.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/processor/element/MatchingElementName.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/GreaterThanExpression.java
*
/thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/util/LazyProcessingCharSequence.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/ExpressionParsingNode.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/expression/DefaultExpression.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/engine/ProcessorExecutionVars.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/engine/AbstractTemplateEvent.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/exceptions/TemplateAssertionException.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/IEngineConfiguration.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/standard/processor/StandardXmlNsTagProcessor.java
* /thymeleaf-3-1-2-release-sources-
jar/org/thymeleaf/standard/processor/AbstractStandardAttributeModifierTagProcessor.java
* /thymeleaf-3-1-2-release-sources-
jar/org/thymeleaf/processor/processinginstruction/IProcessingInstructionStructureHandler.java
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/*
* =====

```

```

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*
* =====
*/

```

Found in path(s):

```

* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/IServletWebApplication.java
*
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/IServletWebSession.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/IServletWebExchange.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/IServletWebRequest.java

```

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```

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~ =====
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~
~ =====
-->

```

Found in path(s):

```

* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/xml/thymeleaf/Standard-Dialect.xml

```

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```
/*
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 * See the License for the specific language governing permissions and
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 *
 * =====
 */
```

Found in path(s):

```
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebSession.java
*
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JakartaServletWebApplication.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JakartaServletWebExchange.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JakartaServletWebSession.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebExchange.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JakartaServletWebRequest.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebApplication.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/util/ExpressionUtils.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/context/Contexts.java
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/web/servlet/JavaxServletWebRequest.java
```

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```

Found in path(s):

```
* /thymeleaf-3-1-2-release-sources-jar/org/thymeleaf/thymeleaf.properties
```

1.134 snake-yaml 2.2

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 */
```

Found in path(s):

```
* /snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
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```

```
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 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
```

Found in path(s):

```
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/Mark.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /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
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/Composer.java
- *
- /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
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/Property.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java

- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Production.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Represent.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/DumperOptions.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java

- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Parser.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Representer.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/TypeDescription.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
- *
- /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/Token.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
- * /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java

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 // AL, Apache License, V2.0 or later, <http://www.apache.org/licenses>
 // BSD, BSD License, <http://www.opensource.org/licenses/bsd-license.php>
 /**
 * 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

1.135 jandex 3.1.2

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1.136 free-type 2.13.2

1.136.1 Available under license :

```
# Files that don't get a copyright, or which are taken from elsewhere.  
#  
# All lines in this file are patterns (relative to the top-level directory),  
# including the comment lines; this means that e.g. `FTL.TXT' matches all  
# files that have this string in the file name (including the path relative  
# to the current directory, always starting with `./').  
#  
# Don't put empty lines into this file!  
#  
builds/unix/pkg.m4  
#
```



```
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
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
```

```
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
```

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```

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1.137 libproc2 4.0.4-r0

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1.138 procps 4.0.4-r0

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1.142 springdoc-openapi-starter-webmvc-ui

2.1.0

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1.143 j2objc-annotations 2.8

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```

Found in path(s):

```
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Weak.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/AutoreleasePool.java
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- * /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ReflectionSupport.java
- * /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
- * /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedWith.java
- * /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/WeakOuter.java
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1.144 swagger-annotations 2.2.9

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1.146 python-setuptools 68.2.2

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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.

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1.147 thymeleaf-spring6 3.1.2.RELEASE

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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

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.

*/

```

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>"
RetValRef(a) ::= "localctx.<a.escapedName>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
"<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

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

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

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

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

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

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

```

```

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

// should never be called
ContextTokenListGetterDecl(t) ::= <<
<t.escapedName>_list() {
    return this.getTokens(<parser.name>.<t.name>);
}
>>

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

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

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

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

```

```

    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};
>>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

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

```

```

RuleContextNameSuffix() ::= "Context"

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<

```

```

class <struct.escapedName> extends

```

```

<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

```

```

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

```

```

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

```

```

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

```

```

copyFrom(ctx) {

```

```

    super.copyFrom(ctx);

```

```

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

```

```

}

```

```

<endif>

```

```

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

}

>>

```

```

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

    constructor(parser, ctx) {

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

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

    <dispatchMethods; separator="\n">

}

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

>>

```

```

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

>>

```

```

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

>>

```

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

```
/** If we don't know location of label def x, use this template */
```

```
labelref(x)
```

```
::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"
```

```
// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
```

```
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"
```

```
recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
```

```
localctx = new <ctxName>Context(this, _parentctx, _parentState);
```

```
<if(label)>
```

```
<if(isListLabel)>
```

```
localctx.<label>.push(_prevctx);
```

```
<else>
```

```
localctx.<label> = _prevctx;
```

```
<endif>
```

```
<endif>
```

```
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,  
_parentctx, _parentState));
```

```
<if(label)>
```

```
<if(isListLabel)>
```

```
localctx.<label>.push(_prevctx);
```

```
<else>
```

```
localctx.<label>
```

```
= _prevctx;
```

```
<endif>
```

```
<endif>
```

```
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
```

```
>>
```

```
recRuleReplaceContext(ctxName) ::= <<
```

```
localctx = new <ctxName>Context(this, localctx);
```

```
this._ctx = localctx;
```

```
_prevctx = localctx;
```

```
>>
```

```
recRuleSetPrevCtx() ::= <<
```

```
if(this._parseListeners!=null) {
```

```

    this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

```

```

<namedActions.header>

```

```

<lexer>

```

```

>>

```

```

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

```

```

<endif>

```

```

<atn>

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

<lexer.name>.EOF = antlr4.Token.EOF;

```

```

<if(lexer.tokens)>

```



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

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

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

```
<endif>
```

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

```
>>
```

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

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
```

```
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>
```

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

Found in path(s):

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

```
/*
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```

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.

*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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

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- */

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

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

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

```
// Include the copyright in this source and also the generated source
@header {
/*
[The "BSD license"]
Copyright (c) 2011 Terence Parr
All rights reserved.
```

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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

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Found in path(s):

* /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);
}

```

```

    }
<endif(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::$satn, self::$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>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(a) ::= "<ctx(a)-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)-><t.name>"
LabelRef(t)
  ::= "<ctx(t)-><t.name>"
ListLabelRef(t) ::= "<ctx(t)-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)-><s.name> = <rhsChunks>;"

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

TokenPropertyRef_text(t) ::= "(<ctx(t)-><t.label> != null ? <ctx(t)-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)-><t.label> != null ? <ctx(t)-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)-><t.label> != null ? <ctx(t)-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)-><t.label> != null ? <ctx(t)-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)-><t.label> != null ? <ctx(t)-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)-><t.label> != null ? <ctx(t)-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)-><t.label> != null ? (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
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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

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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="\n\l">
    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>"
RetValRef(a) ::= "localctx.<a.escapedName>"
QRetValRef(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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```
/*
```

```
* [The "BSD license"]
```

```
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```

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* All rights reserved.
```

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*
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*/
```

Found in path(s):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

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```
/*
```

```
* [The "BSD license"]
```

```
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```

```
* Copyright (c) 2012-2016 Sam Harwell
```

```
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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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- */

```
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>"
RetValRef(a) ::= "_localctx.<a.escapedName>"
QRetValRef(a)
    ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>";

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

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

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

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

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

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

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

```



```

RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

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

ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.escapedName>() {
    return getRuleContext(<r.ctxName>.class,0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
public
    List\<<r.ctxName>>\> <r.escapedName>() {
        return getRuleContexts(<r.ctxName>.class);
    }
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.escapedName>(int i) {
    return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

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

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

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

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,signatures)
::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> extends

```

```

<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=",
"><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>}) {
super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.escapedName>() { }
public void copyFrom(<struct.escapedName> ctx) {
super.copyFrom(ctx);
<struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

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

```

```

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

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends

```

```

T>)visitor).visit<struct.derivedFromName; format="cap">(this);
else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)>
= <d.initValue><endif>"

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

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

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

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

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

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

```

```
>>
```

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

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

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<  
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})  
public class <lexer.name> extends <superClass; null="Lexer"> {  
    static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }  
  
    protected static final DFA[] _decisionToDFA;  
    protected static final PredictionContextCache _sharedContextCache =  
        new PredictionContextCache();  
    <if(lexer.tokens)>  
    public static final int  
        <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;  
    <endif>  
    <if(lexer.escapedChannels)>  
    public static final int  
        <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;  
    <endif>  
    <if(rest(lexer.escapedModeNames))>  
    public static final int  
        <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;  
    <endif>  
    public static String[]
```

```

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

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

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

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

<namedActions.members>

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

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

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

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

@Override
public String[] getChannelNames() { return channelNames; }

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

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

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

```

```

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={"+<\n><\t>">";}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={"+<\n><\t>">";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org.antlr.v4.tool.DOTGenerator
dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

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

codeFileExtension() ::= ".java"

```

Found in path(s):

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

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

```

/*
* [The "BSD license"]
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```

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

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

```

```

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

```

```

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?
    $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
}

```



```

$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

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

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

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

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
    $omos = $block.omos;
}
| ( ^(op=CLOSURE
b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
    List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    SrcOp blk = $b.omos.get(0);
    CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
    alt.addOp(blk);
    alts.add(alt);
    SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]    {$omos = $block.omos;}
;

```

```

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

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

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

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

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

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

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)

```

;

elementOption

: ID

| ^(ASSIGN ID ID)

| ^(ASSIGN ID STRING_LITERAL)

| ^(ASSIGN ID ACTION)

| ^(ASSIGN ID INT)

;

Found in path(s):

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

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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):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java

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

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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/TreeView.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

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* /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/RetValRef.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
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorMessageManager.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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- */

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

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

```

}

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

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

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

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

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

blockSet
@init {
    boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
    GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}?

```

```
// top-level: rule block and > 1 alt
^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+ )
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+ )
-> ^(SET[$BLOCK.token, "SET"] setElement+ )
;
```

```
setElement[boolean inLexer]
```

```
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {!inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
&&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;
```

```
elementOptions
```

```
: ^(ELEMENT_OPTIONS elementOption*)
;
```

```
elementOption
```

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

```
Found in path(s):
```

```
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.g
```

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```

```
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```

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```
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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="ε"<if(loopback)>, style="dashed"<endif>];
>>

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

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

```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

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

```

```

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

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

```

```
import sys
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

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

```
from antlr4 import *
```

```
<header>
```

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

```
class <file.grammarName>Listener(ParseTreeListener):
```

```
    <file.listenerNames:{lname |
```

```
# Enter a parse tree produced by <file.parserName>#<lname>.
```

```
def enter<lname; format="cap">(self, ctx):
```

```
    pass
```

```
# Exit a parse tree produced by <file.parserName>#<lname>.
```

```
def exit<lname; format="cap">(self, ctx):
```

```
    pass
```

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

```
>>
```

```
VisitorFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName,
```

```
file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
<header>
```

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

```
class <file.grammarName>Visitor(ParseTreeVisitor):
```

```
    <file.visitorNames:{lname |
```

```
# Visit a parse tree produced by <file.parserName>#<lname>.
```

```
def visit<lname; format="cap">(self, ctx):
```

```
    return self.visitChildren(ctx)
```

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

```
>>
```

```

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

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

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

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

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

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

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

    <parser:(ctor)()>

    <namedActions.members>

```

```

<funcs; separator="\n">

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

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

>>

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

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

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
  if self._predicates is None:
    preds = dict()
<recog.sempredFuncs.values:{ f|
  preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
  self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)

```

```

    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

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

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

>>

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

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

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

```

>>

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

```
<ruleCtx>
```

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

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

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

>>

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

```
<<
```

```
<ruleCtx>
```

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

```
def <currentRule.escapedName>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
```

```
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a
| , <a.escapedName>}>)
    _prevctx = localctx
```

```

_startState = <currentRule.startState>
self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
<namedActions.init>
<locals; separator="\n">
try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
return localctx

>>

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

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

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
    pass}; separator="\n">
else:
    <error>

>>

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

```

```

self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
    pass}; separator="\n">
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>"
RetValRef(a) ::= "localctx.<a.escapedName>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

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

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

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is

```

```

None else self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

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

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

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

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

ContextTokenGetterDecl(t) ::= <<
def <t.escapedName>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

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

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.escapedName>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

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

// should never be called

```

```

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

>>

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

>>

LexerRuleContext() ::= "RuleContext"

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

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

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

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

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.escapedName>=None}>):
        super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)

    self.parser = parser
    <attrs:{a | <a>}; separator="\n">
    <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

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

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

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx):
        super(<parser.name>.<struct.name>, self).copyFrom(ctx)

```

```

    <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

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

>>

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

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

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

    <dispatchMethods; separator="\n">

>>

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

>>

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

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

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

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

// used for left-recursive rules

```

```

recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

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

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

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

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function

```



```

from antlr4 import *
from io import StringIO
import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

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

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

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

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

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

literalNames = [ u"\<INVALID>",
    <lexer.literalNames:{t | u"<t>"}; separator=", ", wrap, anchor> ]

symbolicNames = [ u"\<INVALID>",
    <lexer.symbolicNames:{t | u"<t>"}; separator=", ", wrap, anchor> ]

```

```

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

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None, output=sys.stdout):

    super(<lexer.name>, self).__init__(input, output=output)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

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

>>

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

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

codeFileExtension() ::= ".py"

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- */

/** templates used to generate make-compatible dependencies */

```
/** Generate "f : x, y, z" dependencies for input
 * dependencies and generated files. in and out
 * are File objects. For example, you can say
 * <f.canonicalPath>
 */
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}>;
separator="\n">
>>
```

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- */

```
// File    : A3Lexer.g
// Author   : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//            hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
// derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
```

```

// tries to defer error reporting to a semantic phase consisting of a single
// walk of the AST. The reason for this is that the error messages produced
// from later phases of the parse will generally have better context and so
// be more useful to the end user. Consider the message: "Syntax error at 'options'"
// vs: "You cannot specify two options{}
// sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *     A3Parser.g
 *     A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
 * 2009
 */
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
// does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.

```

```
//
options {

    // Target language is Java, which is the default but being specific
    // here as this grammar is also meant as a good example grammar for
    // for users.
    //
    language    = Java;

    // The super class that this lexer should expect to inherit from, and
    // which contains any and all support routines for the lexer. This is
    // commented out in this baseline (definitive or normative grammar)
    // - see the ANTLR tool implementation for hints on how to use the super
    // class
    //
    //superclass = AbstractA3Lexer;
}
```

```
tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }
```

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

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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 == RBACE) {
```

```
                    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 also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

    // Record the start line and offsets as if we need to report an
    // unterminated comment, then we want to show the start of the comment
    // we think is broken, not the end, where people will have to try and work
    // it out themselves.
    //
    int startLine = $line;
    int offset   = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
  // or something silly.
  //
  '/' // Comment introducer

  (
    // Single line comment, possibly with embedded src/line directives
    // in a similar style to the C pre-processor, allowing generated
    // code to refer the programmer back to the original source code
    // in case of error.
    //
    '/'

    (
      (' $ANTLR')=> ' $ANTLR' SRC
      | ~NLCHARS*
    )

    | // Multi-line comment, which may be a documentation comment
    // if it starts /** (note that we protect against accidentally
    // recognizing a comment /**/ as a documentation comment

```

```

//
'*' (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
| { true }?=> // Required to cover all alts with predicates
)

// Should we support embedded multiline comments here?
//
(
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .

)*
(
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of the unterminated multi-line comment
    //
    '*'

| // Unterminated comment!
    //
    {
        // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
    }
)

| // There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment start
    //
}
)
{
    // We do not wish to pass the comments in to the parser. If you are

```

```

// writing a formatter then you will want to preserve the comments off
// channel, but could just skip and save token space if not.
//
$channel=COMMENTS_CHANNEL;
}
;

ARG_OR_CHARSET
options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
$type=ARG_ACTION;
// Set the token text to our gathered string minus outer [ ]
String t = $text;
t = t.substring(1,t.length()-1);
setText(t);
}
;

fragment
LEXER_CHAR_SET
: '['
( '\\' ~('\r'|\n')
| ~('\r'|\n'|\\'|']')
)*
']'
;

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
(
ARG_ACTION
| ('')=>ACTION_STRING_LITERAL
| ('\"')=>ACTION_CHAR_LITERAL

```

```

        | ~('[']')
    )*

    ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION ( '?' {$type = SEMPRED;} )?
;

// -----
// 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.

```

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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>"
RetValRef(a) ::= "_localctx.<a.escapedName>"
QRetValRef(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..

```

```

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

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
package organtlr.v4.parse;
import organtlr.v4.tool.*;
import organtlr.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.
```

```
*
```

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```

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* modification, are permitted provided that the following conditions
```

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* 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>{Iname |
```

```

/// \<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>"
RetValRef(a) ::= "_localctx.<a.escapedName>"
QRetValRef(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>(IParseTreeListener listener) {
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public
override TResult Accept<\<TResult>(IParseTreeVisitor<\<TResult> visitor) {
    I<parser.grammarName>Visitor<\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<\<TResult>;
    if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
    else return visitor.VisitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"

```

```

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

```

```

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

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
    ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()          ::= "Context.Stop = TokenStream.LT(-1);"

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

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

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

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

LexerFile(file, lexer, namedActions) ::= <<
    <fileHeader(file.grammarFileName, file.ANTLRVersion)>
    <if(file.genPackage)>

```

```

namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

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

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
<if(lexer.tokens)>
public
const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.escapedChannels)>
public const int
<lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.escapedModeNames))>
public const int
<rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
"DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"}>;
separator=", ", wrap, anchor><endif>
};

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

public static readonly string[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}>; separator=", ", wrap, anchor>
};

```

<namedActions.members>

```
public <lexer.name>(ICharStream input)
: this(input, Console.Out, Console.Error) { }
```

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

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

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

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

```
public override string[] ChannelNames { get { return channelNames; } }
```

```
public override string[] ModeNames { get { return modeNames; } }
```

```
public override int[] SerializedAtn { get { return _serializedATN; } }
```

```
static <lexer.name>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>
```

```
SerializedATN(model) ::= <<
private static int[] _serializedATN = {
    <model.serialized: {s | <s>}; separator=",", wrap>
};
```

```
public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN);
```

>>

```
initValue(typeName)
```



```
::= <<
default(<typeName>)
>>
```

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

```
modeName ::= [
  "DEFAULT_MODE" : "DefaultMode",
  default : key
]
```

```
channelName ::= [
  "HIDDEN" : "Hidden",
  "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
  default : key
]
```

```
tokenType ::= [
  "EOF" : "Eof",
  default : key
]
```

Found in path(s):

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

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*/

/*

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

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

This file contains the default format ANTLR uses.

*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):

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

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*/

Found in path(s):

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

1.150 swagger-ui 4.18.2

1.150.1 Available under license :

swagger-ui

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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/Durations.java
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- * /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

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1.154 pam 1.5.3-r7

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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
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accesskey="p" href="sag-pam_timestamp.html">Prev</a></td><th width="60%" align="center">Chapter 6. A
reference guide for available modules</th><td width="20%" align="right"><a accesskey="n" href="sag-
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pam_tty_audit"></a>6.36. pam_tty_audit - enable/disable tty auditing</h2></div></div></div><div
class="cmdsynopsis"><p><code class="command">pam_tty_audit.so</code> [
disable=<em class="replaceable"><code>patterns</code></em>
][
enable=<em class="replaceable"><code>patterns</code></em>
]</p></div><div class="section"><div class="titlepage"><div><div><h3 class="title"><a name="sag-
pam_tty_audit-description"></a>6.36.1. DESCRIPTION</h3></div></div></div><p>
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.
</p></div><div
class="section"><div class="titlepage"><div><div><h3 class="title"><a name="sag-pam_tty_audit-
options"></a>6.36.2. OPTIONS</h3></div></div></div><div class="variablelist"><dl
class="variablelist"><dt><span class="term">
disable=patterns
</span></dt><dd><p>
For each user matching <code class="option"><em class="replaceable"><code>patterns</code></em></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"><em class="replaceable"><code>patterns</code></em></code>.
</p></dd><dt><span class="term">
enable=patterns
</span></dt><dd><p>
For each user matching <code class="option"><em class="replaceable"><code>patterns</code></em></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"><em class="replaceable"><code>patterns</code></em></code>.
</p></dd><dt><span class="term">
open_only
</span></dt><dd><p>
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.

</p></div><div class="section"><div class="titlepage"><div><div><h3 class="title">6.36.6. EXAMPLES</h3></div></div></div><p>

Audit all administrative actions.

</p><pre class="programlisting">

session required pam_tty_audit.so disable=* enable=root

</pre><p>

</p></div><div class="section"><div class="titlepage"><div><div><h3 class="title">6.36.7. AUTHOR</h3></div></div></div><p>

pam_tty_audit was written by Miloslav Trma

<mitr@redhat.com>.

The log_passwd option was added by Richard Guy Briggs

<rgb@redhat.com>.

</p></div></div><div class="navfooter"><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></div></body></html>

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The Linux-PAM System Administrators' Guide

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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.

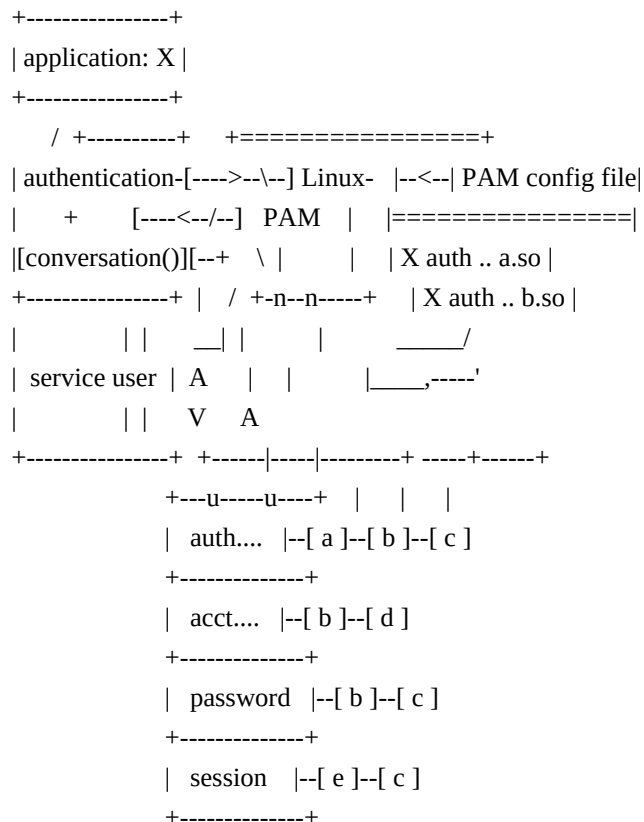
The flexibility of Linux-PAM is that you, the system administrator, have the freedom to stipulate which authentication scheme is to be used. You have the freedom to set the scheme for any/all PAM-aware applications on your Linux system. That is, you can authenticate from anything as naive as simple trust (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 nodegroup 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.dnrtm.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.

preauthtok=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 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_den.y.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_den.y.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;A10000-2400;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* ;*;A10900-1800;floppy
```

Any

member of the group 'admin' running 'xsh' on tty*, is granted access (at any time) to the group 'plugdev'

```
xsh; tty* ;%admin;A10000-2400;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 ] [ noudate ] [ 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 'ftpdusers' authentication can be implemented with this entry in /etc/pam.d/ftpd:

```
#
# deny ftp-access to users listed in the /etc/ftpdusers file
#
auth    required    pam_listfile.so \
        onerr=succeed item=user sense=deny file=/etc/ftpdusers
```

Note, users listed in /etc/ftpdusers 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 polystantiate. 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 polyinstantiation 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 temporarily 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!

isoflimit=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 `conf` 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;tty;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* & !tty* ; !root ; !A10000-2400
```

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_CRYPT_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 logs in 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_ycrypt

When a user changes their password next, encrypt it with the gost-ycrypt algorithm. The gost-ycrypt algorithm must be supported by the crypt(3) function.

ycrypt

When a user changes their password next, encrypt it with the ycrypt algorithm. The ycrypt algorithm must be supported by the crypt(3) function.

rounds=n

Set the optional number of rounds of the SHA256, SHA512, blowfish, gost-ycrypt, and ycrypt 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_authok 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_DENIED

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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Found in path(s):

* /linux-pam-1-5-3-docs-tar-xz/Linux-PAM-1.5.3/doc/sag/Linux-PAM_SAG.txt

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

The Linux-PAM Module Writers' Guide

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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 themselves 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 86.0, October 1995.

Chapter 8. Author/acknowledgments

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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

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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 execl(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 its return values. It is the application's 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 without 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 themselves 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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Chapter 12. Copyright information for this document

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Found in path(s):

1.155 flyway-core 9.22.3

1.155.1 Available under license :

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

```
/**
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 */
```

Found in path(s):

* /flyway-core-9-22-3-sources-jar/assets/report/report.css

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```
/*
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 */
```

Found in path(s):

* /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/CompositeMigrationResolver.java

* /flyway-core-9-22-3-sources-jar/org/flywaydb/core/Flyway.java

* /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/reports/ReportDetails.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBConnection.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/ClassPathScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/MergeUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/slf4j/Slf4jLog.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/CleanModePlugin.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/MigrationPattern.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/ValidateResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/package-info.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/TomlUtils.java
- *
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/exception/package-info.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/Scanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/FlywaySqlScriptException.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/DatabaseType.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/strategy/BackoffStrategy.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/DbRepair.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/DerbyDatabaseType.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/configuration/ClassicConfiguration.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/informix/InformixDatabaseType.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/InfoHtmlRenderer.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/DefaultUrlResolver.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/DatabaseTypeRegister.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/Warning.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/jboss/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/filesystem/FileSystemResource.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/scanner/classpath/FileSystemClassPathLocationScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBTable.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/InfoTelemetryModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/ExceptionUtils.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/Error.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/SAPHANASchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/UrlUtils.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/MigrationInfo.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/SnowflakeDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/classpath/ClassPathResource.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/Result.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/H2Table.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/HtmlRenderer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationResolver.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/StopWatch.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/SAPHANATable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/PlainExecutionTemplate.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/FlywayExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/OperationResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/MigrationState.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/info/AppliedMigrationAttributes.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/ResourceTypeProvider.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/StringUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/authentication/ExternalAuthPropertiesProvider.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/ParserContext.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/log4j2/Log4j2LogCreator.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/RgDomainChecker.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationExecutorFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/TestContainersDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBConnection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/TransactionalModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/SchemaObject.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/DerbyParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/ResourceProvider.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/DashboardRenderer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/DbMigrate.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/PlaceholderReplacingReader.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Parser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/EventTelemetryModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/exception/FlywaySqlException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/CommandExtension.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/resolver/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/ErrorDetails.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/reports/json/CompositeResultDeserializer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/MigrationVersion.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/Location.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/apachecommons/ApacheCommonsLogCreator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/MigrationInfoService.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/ClassProvider.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/sql/DefaultSqlMigrationExecutorFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/LicenseGuard.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/Parser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/CommandExtensionUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/proprietaryStubs/CommandExtensionStub.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/DbSchemas.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/informix/InformixTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/BaseCallback.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/javautil/JavaUtilLogCreator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/clean/CleanModeConfigurationExtension.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/models/FlywayModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/LicenseInfo.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/H2Parser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/redshift/RedshiftTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/multi/MultiLogCreator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/UrlResolver.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/logging/LogCreator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/WarningImpl.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/callback/DefaultCallbackExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/RepairOutput.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/authentication/ExternalAuthFileReader.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/SnowflakeSchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/exception/FlywayDbUpgradeRequiredException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/H2Connection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/info/MigrationInfoDumper.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/DbBaseline.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/HtmlUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/FileUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/redshift/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/DerbySchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/EvolvingLog.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/cockroachdb/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLDatabase.java

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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/PositionTracker.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/Callback.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBTable.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/LicenseRgDomainChecker.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/MigrationInfoHelper.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/executor/MigrationExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/SAPHANADatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/PeekingReader.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/s3/AwsS3Resource.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/MigrationType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/SybaseASESchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/SAPHANAParser.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/H2DatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/models/PropertyResolver.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/schemahistory/BaseAppliedMigration.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/reports/json/HtmlResultDeserializer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/informix/InformixParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/info/MigrationInfoServiceImpl.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/SAPHANAConnection.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/license/VersionPrinter.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/plugin/PluginRegister.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/slf4j/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/CoreResourceTypeProvider.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/DataUnits.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2DatabaseType.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/FlywayTrialExpiredException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/DefaultExecutionStrategy.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineMigrationType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/Statement.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/FlywayRedgateLicenseKeyException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/BooleanEvaluator.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/ResolvedMigrationImpl.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/models/EnvironmentModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/MigrateResult.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/H2Database.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/reports/html/HoldingTabMetadata.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/ChecksumCalculator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteSchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/clean/CleanModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/Delimiter.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/Event.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/BaselineResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/HoldingResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/Type.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/TokenType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/LicenseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/schemahistory/SchemaHistoryFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Type.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/DerbyConnection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptMetadata.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/informix/InformixDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/clean/DbClean.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/FlywayMissingLicenseKeyException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/RepairResult.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/clean/CleanExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/authentication/postgres/PgpassFileReader.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/TelemetryPlugin.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/callback/NoopCallbackExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/DateUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteConnection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/clazz/NoopClassProvider.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/apachecommons/ApacheCommonsLog.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/SnowflakeDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/Results.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/Statement.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/MigrateHtmlRenderer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/callback/Context.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/resource/LoadableResource.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/Schema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/SybaseASEJTDSDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineMigrationResolver.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineJavaMigration.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/CommandResultFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/OperationResultJsonBase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/filesystem/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/filesystem/FileSystemScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/TableLockingExecutionTemplate.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/ErrorOutput.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/log4j2/Log4j2Log.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/Table.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/cloud/s3/AwsS3Scanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLCopyParsedStatement.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Schema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/sql/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/callback/NoopCallback.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/license/FlywayTrialExpiredException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/Token.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/SnowflakeTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/info/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/reports/json/InfoResultDeserializer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/DriverDataSource.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/sl4j/Slf4jLogCreator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/license/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/license/FlywayTeamsUpgradeMessage.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/cloud/CloudScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/JsonUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/Pair.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/RootTelemetryModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/DerbyDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/ValidateOutput.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/BaseDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/LocationScannerCache.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/HtmlTableRenderer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/javautil/package-info.java
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- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/package-info.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/migration/Context.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLConnection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/models/ResolvedEnvironment.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Connection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/FlywayDbWebsiteLinks.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/informix/InformixSchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/info/MigrationInfoImpl.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/ConfigurationParameter.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/resolver/ResolvedMigration.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/resolver/MigrationResolver.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/BomStrippingReader.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/h2/H2Schema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/OperationResultBase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/DashboardResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/callback/CallbackExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/SnowflakeParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/JdbcConnectionFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/ErrorImpl.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/FlywayTelemetryManager.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/database/sybasease/SybaseASEJConnectDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/JdbcNullTypes.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/SybaseASEParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/classpath/package-info.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBRetryingStrategy.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/TransactionalExecutionTemplate.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineAppliedMigration.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/ConfigurationValidator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/configuration/resolvers/PropertyResolverContext.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/AppliedMigration.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/ResourceName.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/NoopResourceProvider.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/resolver/ChecksumMatcher.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/derby/DerbyTable.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/FlywayExpiredLicenseKeyException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/InfoOutputProvider.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/StatementType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/ResolvedMigrationComparator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/ResourceNameCache.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/FeatureDetector.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/pattern/ValidatePattern.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/AbbreviationUtils.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/ParsingContext.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/Function.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/ClasspathClassScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBSchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Table.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/license/FlywayTeamsUpgradeRequiredException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/migration/BaseJavaMigration.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/scanner/classpath/JarFileClassPathLocationScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/ClassPathLocationScanner.java
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- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Database.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/AsciiTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/exception/FlywayValidateException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/SybaseASEDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/java/ScanningJavaMigrationResolver.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/UndoOutput.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/CollectionsUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/HoldingRenderer.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/OsgiClassPathLocationScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/reports/html/HtmlReportGenerator.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/informix/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/ConfigurationProvider.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/executor/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/HtmlResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/InsertRowLock.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/JdbcUtils.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/redshift/RedshiftDatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/SybaseASEConnection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/scanner/classpath/jboss/JBossVFSv2UrlResolver.java
- *
- /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/database/cockroachdb/CockroachRetryingTransactionalExecutionTemplate.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/executor/Context.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/command/clean/SchemaModel.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/java/JavaMigrationExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/LocalDateTimeSerializer.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resolver/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/clazz/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/redshift/RedshiftParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/ConfigurationExtension.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/RowMapper.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptExecutor.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/license/Edition.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/ResourceType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/callback/SqlScriptCallbackFactory.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/configuration/resolvers/PropertyResolverContextImpl.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptExecutorFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/schemahistory/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/parser/Recorder.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/Connection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/ExecutionTemplate.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/base/Database.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/saphana/SAPHANADatabaseType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/jdbc/ExecutionTemplateFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/hsqldb/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteDatabase.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/db2/DB2Function.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/buffered/BufferedLog.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/DatabaseExecutionStrategy.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sybasease/SybaseASETTable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/strategy/RetryStrategy.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/ResourceNameValidator.java
- *
- /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/proprietaryStubs/FlywayProprietaryRequiredException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/PluginMetadata.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/callback/SimpleContext.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/license/FlywayEditionUpgradeRequiredException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/resource/StringResource.java
- * /flyway-core-9-22-3-sources-
- jar/org/flywaydb/core/internal/scanner/classpath/jboss/JBossVFSv3ClassPathLocationScanner.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/SqlStatement.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/BomFilter.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/InfoResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/ErrorCode.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/FlywayException.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/logging/buffered/BufferedLogCreator.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/sqlscript/DefaultSqlScriptExecutor.java

- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/util/SqlCallable.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/CleanResult.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteParser.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/snowflake/SnowflakeConnection.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/output/InfoOutput.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/configuration/S3ClientFactory.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLSchema.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/info/MigrationInfoContext.java
- *
- /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLType.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/FlywayInvalidLicenseKeyException.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/api/logging/package-info.java
- * /flyway-core-9-22-3-sources-jar/org/flywaydb/core/extensibility/Plugin.java

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

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limitations under the License.

-->

Found in path(s):

- * /flyway-core-9-22-3-sources-jar/assets/report/reportScript.html
- * /flyway-core-9-22-3-sources-jar/assets/report/holdingTabs/changes.html
- * /flyway-core-9-22-3-sources-jar/assets/report/holdingTabs/code.html
- * /flyway-core-9-22-3-sources-jar/assets/report/holdingTabs/migrate.html
- * /flyway-core-9-22-3-sources-jar/META-INF/maven/org.flywaydb/flyway-core/pom.xml
- *
- /flyway-core-9-22-3-sources-jar/assets/report/upgradeTabs/drift.html
- * /flyway-core-9-22-3-sources-jar/assets/report/infoBlobs/drift.html
- * /flyway-core-9-22-3-sources-jar/assets/report/infoBlobs/migrate.html
- * /flyway-core-9-22-3-sources-jar/assets/report/upgradeTabs/changes.html
- * /flyway-core-9-22-3-sources-jar/assets/report/infoBlobs/changes.html
- * /flyway-core-9-22-3-sources-jar/assets/report/footer.html
- * /flyway-core-9-22-3-sources-jar/assets/report/infoBlobs/dryrun.html

- * /flyway-core-9-22-3-sources-jar/assets/report/infoBlobs/info.html
- * /flyway-core-9-22-3-sources-jar/assets/report/holdingTabs/dryrun.html
- * /flyway-core-9-22-3-sources-jar/assets/report/upgradeTabs/dryrun.html
- * /flyway-core-9-22-3-sources-jar/assets/report/holdingTabs/drift.html

1.156 json-java 20231013

1.156.1 Available under license :

Public Domain.

1.157 libcxxabi 1.1.10.5

1.157.1 Available under license :

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

Manifest-Version: 1.0

Bnd-LastModified: 1695799258578

Bundle-ActivationPolicy: lazy

Bundle-Activator: org.xerial.snappy.SnappyBundleActivator

Bundle-Description: snappy-java: A fast compression/decompression library

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

```
ve/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xer
```

```
ial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x
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86,org/xerial/snappy/native/Mac/x86/libsnappyjava.inilib;osname=macos

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x;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dyl
```

ib;osname=macosx;processor=x86-64.org/xerial/snappy/native/Mac/aarch64

```
4/libsnappyjava.dylib;osname=macosx;processor=aarch64.org/xerial/snap
```

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py/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86_64
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.org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so:osname=linux:
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[/aarch64/libsnappyjava.so:osname=linux:processor=aarch64.org/xerial/s](https://aarch64.libsnappyjava.so/osname=linux:processor=aarch64.org/xerial/s)

nappy/native/Linux/riscv64/libsnappyjava.so:osname=linux:processor=ri

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scv64.org/xerial/snappy/native/Linux/arm/libsnappyjava.so:osname=linux
```

```
seve3;org.xerial.snappy/native/Linux/armv7/libsnappyv1a.so
x:processor≡arm.org/xerial/snappy/native/Linux/armv7/libsnappyv1a.so
```

```
:osname=linux:processor=arm le.org/xerial/snappy/native/linux/ppc64/
```

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ibmsnappyjava.so:osname=linux:processor=ppc64le.org=xerial/snappy/pati
```

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ve/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x;org=xeri
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al/snappy/native/AIX/ppc/libsnappyjava.a;osname=aix;processor=ppc,org
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ppc64,org/xerial/snappy/native/SunOS/x86/libsnappyjava.so;osname=suno
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
ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
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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
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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
.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.a
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

1.158 python-certifi 2023.07.22

1.158.1 Available under license :

This package contains a modified version of ca-bundle.crt:

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 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 \$

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Version 2.0

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1.160 python-pip 23.3.1

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This package contains a modified version of ca-bundle.crt:

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
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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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.

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.

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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		
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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
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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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Any

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

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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.

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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@page

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and a brief idea of what it does.}

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@end smallexample

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```
@smallexample
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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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```
@example
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`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 GNU.Gettext.dll C# library,
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Version 2.1, February 1999

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^L

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former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the

complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

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

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

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

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

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:

- a) 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.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) 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.
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- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we

stand

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

The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates

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1.166 asm 9.6

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1.168 log4j-api 2.21.1

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1.169 nghttp2 1.58.0-r0

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1.170 xz 5.4.5-r0

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1.171 everit-json-schema 1.14.3

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1.172 utmps 0.1.2.2-r0

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1.178 skalibs 2.14.0.1-r0

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1.181 classmate 1.6.0

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Other developers who have contributed code are:

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#
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docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
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
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
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o freetype@nongnu.org

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o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

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--- end of FTL.TXT ---

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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.

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```

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```
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This is free software, and you are welcome to redistribute it
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.183 alpine-baselayout 3.4.3-r2

1.183.1 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"
buildddir="$srcdir/${_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@ptrcnnull.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="
4d8d430df91c6aac53d2305d3125eae492324e85c4db29d33d452b3848f33a55088e71247c6c72c6a62f4e924a374a
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 rdft 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
  done
}

```

```

${license%.*} >> "$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.nbc.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
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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
"

# 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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1.184 xz-libs 5.4.5-r0

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=====

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1.185 musl-utils 1.2.4_git20230717-r4

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man/sha1.3

man/sha2.3

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src/helper.c

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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
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man/getbsize.3bsd
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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/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c

src/radixsort.c

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man/strtonum.3bsd
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src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
src/readpassphrase.c
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1.190 netcat-openbsd 1.226-r0

1.190.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Upstream-Name: netcat

Files: netcat.c

Copyright: 2001 Eric Jackson <ericj@monkey.org>

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Files: nc.1

Copyright: 1996 David Sacerdote

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Files: atomicio.*

Copyright: 2006 Damien Miller

2005 Anil Madhavapeddy

1995,1999 Theo de Raadt

License: BSD-2-Clause

Files: socks.c

Copyright: 1999 Niklas Hallqvist
2004, 2005 Damien Miller

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Files: Makefile

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1.191 pcre 10.42-r2

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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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Email domain: freemail.hu

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1.192 sqlite 3.44.2-r0

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1.193 libncursesw 6.4_p20231125-r0

1.193.1 Available under license :

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- \$Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp \$
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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1.194 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
 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 \$

A. HISTORY OF THE SOFTWARE

=====

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
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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

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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.

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

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*****/

```

```

/*****

```

```

* Author: Thomas E. Dickey    1996-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/lib-lpanel

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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); }

```

Found in path(s):

```

* /libpanel-6-4-zip/libpanel_6.4/lib-lpanelt
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#

```
@ 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
```

Found in

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```
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* /libpanel-6-4-zip/libpanel_6.4/p_update.c
* /libpanel-6-4-zip/libpanel_6.4/p_hide.c
* /libpanel-6-4-zip/libpanel_6.4/p_hidden.c
```

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#####
#
```

Author: Thomas E. Dickey <dickey@clark.net> 1996

#

\$(srcdir)/panel.h

vile:makemode

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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);  
}
```

Found in path(s):

* /libpanel-6-4-zip/libpanel_6.4/lib-lpanelw

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

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

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Found in path(s):

* /libpanel-6-4-zip/libpanel_6.4/p_top.c

* /libpanel-6-4-zip/libpanel_6.4/p_win.c

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* /libpanel-6-4-zip/libpanel_6.4/p_new.c

* /libpanel-6-4-zip/libpanel_6.4/p_show.c

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```

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* /libpanel-6-4-zip/libpanel_6.4/p_move.c

1.196 distlib 0.3.8

1.196.1 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 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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- (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.

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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
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
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1.197 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 library

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/x86_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xerial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macosx;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dylib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch64/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snappy/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;osname=linux;processor=amd64,org/xerial/snappy/native/Linux/x86/libsnappyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/snappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=riscv64,org/xerial/snappy/native/Linux/arm/libsnappyjava.so;osname=linux;processor=arm,org/xerial/snappy/native/Linux/armv7/libsnappyjava.so;osname=linux;processor=arm_le,org/xerial/snappy/native/Linux/ppc64/libsnappyjava.so;osname=linux;processor=ppc64le,org/xerial/snappy/native/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xerial/snappy/native/AIX/ppc/libsnappyjava.a;osname=aix;processor=ppc,org/xerial/snappy/native/AIX/ppc64/libsnappyjava.a;osname=aix;processor=ppc64,org/xerial/snappy/native/SunOS/x86/libsnappyjava.so;osname=sunos;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.s

o;osname=sunos;processor=x86-64,org.xerial.snappy/native/SunOS/sparc/
 libsnaappyjava.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
 rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
 .xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.a
 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

1.198 bcpkix-fips 1.0.7

1.198.1 Available under license :

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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

1.199 curl 8.5.0-r0

1.199.1 Available under license :

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1.200 shadow 4.14.2-r0

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1.201 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.google.protobuf,javax.annotation"

Import-Package: com.google.common.base;version="[32.0,33)",com.google.common.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",com.google.common.primitives;version="[32.0,33)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf,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

1.202 proto-google-common-protos 2.29.0

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```

Found in path(s):

```
* /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  
* /proto-google-common-protos-2-29-0-jar/google/rpc/status.proto  
* /proto-google-common-protos-2-29-0-jar/google/rpc/context/audit_context.proto  
*  
/proto-google-common-protos-2-29-0-jar/google/type/expr.proto  
* /proto-google-common-protos-2-29-0-jar/google/type/color.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/routing.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/monitored_resource.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/field_info.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/annotations.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/monitoring.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/resource.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/documentation.proto  
* /proto-google-common-protos-2-29-0-jar/google/type/calendar_period.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/quota.proto  
* /proto-google-common-protos-2-29-0-jar/google/rpc/error_details.proto  
* /proto-google-common-protos-2-29-0-jar/google/type/date.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/policy.proto  
* /proto-google-common-protos-2-29-0-jar/google/longrunning/operations.proto  
*  
/proto-google-common-protos-2-29-0-jar/google/api/endpoint.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/consumer.proto  
* /proto-google-common-protos-2-29-0-jar/google/logging/type/log_severity.proto  
* /proto-google-common-protos-2-29-0-jar/google/type/datetime.proto  
* /proto-google-common-protos-2-29-0-jar/google/logging/type/http_request.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/distribution.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/logging.proto  
* /proto-google-common-protos-2-29-0-jar/google/api/usage.proto  
* /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
*
/proto-google-common-protos-2-29-0-jar/google/api/control.proto
* /proto-google-common-protos-2-29-0-jar/google/api/visibility.proto
* /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
* /proto-google-common-protos-2-29-0-jar/google/type/interval.proto
* /proto-google-common-protos-2-29-0-jar/google/api/context.proto
* /proto-google-common-protos-2-29-0-jar/google/api/field_behavior.proto
* /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
* /proto-google-common-protos-2-29-0-jar/google/cloud/extended_operations.proto
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Found in path(s):

```

* /proto-google-common-protos-2-29-0-jar/google/api/launch_stage.proto

```

1.203 protobuf-java 3.25.1

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Found in path(s):

```
* /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
*
```

```
/protobuf-java-3-25-1-jar/google/protobuf/descriptor.proto
* /protobuf-java-3-25-1-jar/google/protobuf/empty.proto
* /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
* /protobuf-java-3-25-1-jar/google/protobuf/struct.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/>

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

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
```


1.204 error_prone_annotations 2.23.0

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* /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/LICENSE-2.0.txt"

Bundle-ManifestVersion: 2

Bundle-Name: error-prone annotations

Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annotations",connection="scm:git:https://github.com/google/error-prone.git/error_prone_annotations",developer-connection="scm:git:git@github.com:google/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.model.element";version="2.23.0",com.google.errorprone.annotations.concurrent;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

1.205 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

1.206 guava 33.0.0-jre

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1.207 hazelcast-tpc-engine 5.3.6

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* /hazelcast-tpc-engine-5-3-6-sources-jar/META-INF/maven/com.hazelcast/hazelcast-tpc-engine/pom.xml

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List of third-party dependencies grouped by their license type:

Apache-2.0

Java Concurrency Tools Core Library:4.0.1

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* /hazelcast-tpc-engine-5-3-6-sources-jar/com/hazelcast/internal/tpcengine/Scheduler.java
*
/hazelcast-tpc-engine-5-3-6-sources-jar/com/hazelcast/internal/tpcengine/util/BoundPriorityQueue.java
* /hazelcast-tpc-engine-5-3-6-sources-jar/com/hazelcast/internal/tpcengine/PromiseAllocator.java

```

1.208 hazelcast 5.3.6

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The packages:

com.hazelcast.internal.util.collection

com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(<https://github.com/real-logic/Agrona>).

The class com.hazelcast.internal.util.HashUtil contains code originating
from the Koloboke project (<https://github.com/OpenHFT/Koloboke>).

The class classloading.ThreadLocalLeakTestUtils contains code originating
from the Tomcat
project (<https://github.com/apache/tomcat>).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating
from the Akka project (<https://github.com/akka/akka/>).

The package com.hazelcast.internal.json contains code originating
from minimal-json project (<https://github.com/ralfstx/minimal-json>).

The class com.hazelcast.instance.impl.MobyNames contains code originating
from The Moby Project (<https://github.com/moby/moby>).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder contains code
originating from The JGraphT Project (<https://github.com/jgrapht/jgrapht>).

The packages:
com.hazelcast.sql
com.hazelcast.jet.sql

contain code originating from the Apache Calcite (<https://github.com/apache/calcite>)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains
code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap contains code written by Doug Lea
and updated within the WildFly project
(<https://github.com/wildfly/wildfly>).

The classes:
com.hazelcast.cp.internal.raft.impl.state.FollowerState
com.hazelcast.cp.internal.raft.impl.state.FollowerStateTest
com.hazelcast.cp.internal.raft.impl.SlowFollowerBackoffTest

contain code originating from the MicroRaft project (<https://github.com/MicroRaft/MicroRaft>)

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Stop.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/A.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Tspan.java
*
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Symbol.java
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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeIndefinite.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeSum.java

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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Gradient.java

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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/SVGPlayer.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/SVGViewer.java

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```

options {
    MULTI=true;
    STATIC=false;
}

PARSER_BEGIN(AnimTimeParser)

package com.kitfox.svg.animation.parser;

import com.kitfox.svg.SVGConst;
import com.kitfox.svg.animation.TimeBase;
import com.kitfox.svg.animation.TimeCompound;
import com.kitfox.svg.animation.TimeDiscrete;
import com.kitfox.svg.animation.TimeIndefinite;
import com.kitfox.svg.animation.TimeLookup;
import com.kitfox.svg.animation.TimeSum;
import
    java.io.StringReader;
import java.util.ArrayList;
import java.util.logging.Level;
import java.util.logging.Logger;

public class AnimTimeParser
{
    /**
     * Test the parser
     */
    public static void main(String args[]) throws ParseException
    {
        //    AnimTimeParser parser = new AnimTimeParser(System.in);
        StringReader reader;

        reader = new StringReader("1:30 + 5ms");
        AnimTimeParser parser = new AnimTimeParser(reader);
        TimeBase tc;

        tc = parser.Expr();
        System.err.println("AnimTimeParser eval to " + tc.evalTime());

        reader = new StringReader("19");
        parser.ReInit(reader);
        tc = parser.Expr();
        System.err.println("AnimTimeParser eval to " + tc.evalTime());
    }
}

PARSER_END(AnimTimeParser)

```

/**

* Tokens

*/

SKIP : /* WHITE SPACE */

```
{
  " "
  | "\t"
  | "\n"
  | "\r"
  | "\f"
}
```

TOKEN :

```
{
  < #LETTER: [ "a"-"z", "A"-"Z" ] >
  |
  < #DIGIT: [ "0"-"9" ] >
  |
  <
  INTEGER: (<DIGIT>)+ >
  |
  < FLOAT: ([ "+", "-" ])? (((<DIGIT>)* "." (<DIGIT>)+) | ((<DIGIT>)+)) ([ "E", "e" ] ([ "+", "-" ])? (<DIGIT>)+)? >
  |
  < INDEFINITE: "indefinite" >
  |
  < MOUSE_OVER: "mouseover" >
  |
  < WHEN_NOT_ACTIVE: "whenNotActive" >
  |
  < UNITS: "ms" | "s" | "min" | "h" >
  |
  < IDENTIFIER: <LETTER> (<LETTER>|<DIGIT>|"_"|"-" )* >
}
```

/**

* Expression structure

*/

```
TimeBase Expr() :
{
    TimeBase term;
    ArrayList list = new ArrayList();
}
{
    ( term = Sum()
        {
            list.add(term);
        }
    )?
    ( LOOKAHEAD(2) ";" term = Sum()
        {
            list.add(term);
        }
    ) *
    (";")?

    {
        switch (list.size())
        {
            case 0:
                return new TimeIndefinite();
            case 1:
                return (TimeBase)list.get(0);
            default:
                return new TimeCompound(list);
        }
    }
}
```

```
TimeBase Sum() :
{
    Token t = null;
    TimeBase t1;
    TimeBase t2 = null;
}
{
    t1=Term()
    ( (t="+" | t="-") t2 = Term() )?
    {
        if (t2 == null) return t1;

        if (t.image.equals("-"))
        {
```

```

        return new TimeSum(t1, t2, false);
    }
    else
    {
        return new TimeSum(t1, t2, true);
    }
}
}

```

TimeBase Term() :

```

{
    TimeBase base;
}
{
    base=IndefiniteTime()
    { return base; }
    | base=LiteralTime()
    { return base; }
    | base=LookupTime()
    { return base; }
    | base=EventTime()
    { return base; }
}

```

TimeIndefinite IndefiniteTime() :

```

{}
{
    <INDEFINITE>
    {
        return new TimeIndefinite();
    }
}

```

TimeDiscrete EventTime() :

```

{}
{
    (<MOUSE_OVER> | <WHEN_NOT_ACTIVE>)
    {
        //For now, map all events to the zero time
        return new TimeDiscrete(0);
    }
}

```

TimeDiscrete LiteralTime() :

```

{
    double t1, t2, t3 = Double.NaN, value;
    Token t;
}

```

```

}
{
    t1=Number()
    {
        value = t1;
    }
}
(
    (":" t2=Number() (":" t3=Number())?
    {
        //Return clock time format (convert to seconds)
        if (Double.isNaN(t3))
        {
            value = t1 * 60 + t2;
        }
        else
        {
            value = t1 * 3600 + t2 * 60 + t3;
        }
    }
)

|

(t=<UNITS>
{
    //Return units format (convert to seconds)
    if (t.image.equals("ms")) value = t1 / 1000;
    if (t.image.equals("min")) value = t1 * 60;
    if (t.image.equals("h")) value = t1 * 3600;
}
)
)?
{
    return new TimeDiscrete(value);
}
}

```

TimeLookup LookupTime() :

```

{
    double paramNum = 0.0;
    Token node, event;
}
{
    node=<IDENTIFIER> "." event=<IDENTIFIER> (paramNum=ParamList())?
    {
        return new TimeLookup(null, node.image, event.image, "" + paramNum);
    }
}

```

```

    }
}

double ParamList() :
{
    double num;
}
{
    "(" num=Number() ")"

    {
        return num;
    }
}

double Number() :
{
    Token t;
}
{
    t=<FLOAT>
    {
        try {
            return Double.parseDouble(t.image);
        }
        catch (Exception e) {
            Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
                "Could not parse double '" + t.image + "'", e);
        }

        return 0.0;
    }
    | t=<INTEGER>
    {
        try {
            return Double.parseDouble(t.image);
        }
        catch (Exception e) {
            Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
                "Could not parse double '" + t.image + "'", e);
        }

        return 0.0;
    }
}

int Integer() :
{

```

```

Token t;
}
{
t=<INTEGER>
{
    try {
        return Integer.parseInt(t.image);
    }
    catch (Exception e) {
        Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
            "Could not parse int '" + t.image + "'", e);
    }

    return
0;
}
}

```

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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/ColorTable.java

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Found in path(s):

```
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGException.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGParseException.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGElementException.java
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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/util/TextBuilder.java

* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/util/FontSystem.java

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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Ellipse.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Circle.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Line.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Rect.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Polygon.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Polyline.java
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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Path.java

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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/MainFrame.java

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* /svgsalamander-1-1-3-sources-jar/META-INF/maven/guru.nidi.com.kitfox/svgSalamander/pom.xml

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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGDisplayPanel.java
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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/ImageSVG.java

* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Glyph.java

* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Hkern.java

* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Font.java

* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FontFace.java

* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/MissingGlyph.java

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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/ReadableXMLElement.java

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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Marker.java
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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/data/Handler.java

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- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackBase.java
- * /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackManager.java
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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackColor.java
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* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Quadratic.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/QuadraticSmooth.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Vertical.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Terminal.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Arc.java
*
/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Horizontal.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/MoveTo.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/CubicSmooth.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Cubic.java
* /svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/LineTo.java

1.210 mapsforge 0.20.0

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Ludwig Brinckmann revived the project in version 0.4.X.

Current owner and lead developer is:

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1.211 gcompat 1.1.0-r4

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1.212 ncurses 6.4_p20231125-r0

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: install-sh

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-- vile: txtmode file-encoding=utf-8

1.213 py3-setuptools 68.2.2-r0

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1.214 py3-parsing 3.1.1-r0

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1.215 py3-packaging 23.2-r0

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1.216 py3-pip 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
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 \$

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			

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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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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
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.219 font-droid 20200215-r2

1.219.1 Available under license :

```
# 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=0
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"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
buildddir="${srcdir}/${_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
"

# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.1.0
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-gp517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
source="https://files.pythonhosted.org/packages/source/l/_pkgname/_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
    gp517 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="
8d05a04a2b753be1a50d58b622d9493948f0c70d834ee871e2814a1fcbdb6177a10733d6f1a8a19bd9cb741e2b5fe6e
dc73e8d15fb61f952283aa8053fc7090
    license-expression-30.1.0.tar.gz
"

```

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```
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: Maxim Karasev <begs@disroot.org>
pkgname=bsd-games
pkgver=3.2
pkgrel=0
pkgdesc="traditional text mode games from BSD"
url="https://github.com/msharov/bsd-games"
arch="all"
license="BSD-3-Clause"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://github.com/msharov/bsd-games/archive/v$pkgver/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
}

sha512sums="
cf5f5a9e5d215ee553486580f9a7dfc9801d254a2806172df201dfc42ecbb05326db7bc25b7624eb8a8e541ad61ec319d
258687609bddae2bc07edcbade2291a  bsd-games-3.2.tar.gz
"

# Automatically generated by apkbuidl-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=7
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
```

```

makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/${_pkgreal}-${pkgver}.tar.gz"

builddir="${srcdir}/${_pkgreal}-${pkgver}"

prepare() {
    default_prepare

    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make
}

check() {
    make test
}

package() {
    make DESTDIR="$pkgdir" install
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85
    BSD-Resource-1.2911.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=7
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"

```

1.220 font-liberation 2.1.5-r2

1.220.1 Available under license :

```

# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
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"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: Maxim Karasev <begs@disroot.org>
pkgname=bsd-games
pkgver=3.2
pkgrel=0
pkgdesc="traditional text mode games from BSD"
url="https://github.com/msharov/bsd-games"
arch="all"
license="BSD-3-Clause"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://github.com/msharov/bsd-games/archive/v$pkgver/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
}

sha512sums="
cf5f5a9e5d215ee553486580f9a7dfc9801d254a2806172df201dfc42ecbb05326db7bc25b7624eb8a8e541ad61ec319d
258687609bddae2bc07edcbade2291a bsd-games-3.2.tar.gz
"

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```

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Contributor: Valery Kartel <valery.kartel@gmail.com>

Maintainer: Valery Kartel <valery.kartel@gmail.com>

pkgname=perl-bsd-resource

_pkgreal=BSD-Resource

pkgver=1.2911

pkgrel=6

pkgdesc="Perl extension implements the BSD process resource limit functions"

url="https://metacpan.org/release/BSD-Resource"

arch="all"

license="GPL-1.0-or-later OR Artistic-1.0-Perl"

makedepends="perl-dev"

subpackages="\$pkgname-doc"

source="https://cpan.metacpan.org/authors/id/J/JH/JHI/\${_pkgreal}-\${pkgver}.tar.gz"

builddir="\$srcdir/\${_pkgreal}-\${pkgver}"

```
prepare() {  
    default_prepare
```

```
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')  
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor  
}
```

```
build() {  
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')  
    make  
}
```

```
check() {  
    make test  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete  
}
```

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85

BSD-Resource-1.2911.tar.gz"

Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>

Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>

pkgname=spdx-licenses

pkgver=3.16

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="
1bfdb250bcd36d30f8406e12cfbfc033743e2a323fdf5c5ca869954d997d420b377c56ca3138b533a7353ce01a492f215
dcfa1be4f1558da7dac3a090227ab46 license-list-data-3.16.tar.gz
"

```

1.221 font-freefont 20120503-r4

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Version 3, 29 June 2007

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1.224 zlib 1.2.8

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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 Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

1.226 busybox 1.36.1-r19

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.228 Iz4-java 1.8.0

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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 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
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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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3.0	2.6	2008	PSF	yes
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1.231 tzdata 2024a-r0

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1.232 alpine-baselayout-data 3.4.3-r2

1.232.1 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="
7be7ebab1d980063ab846a228c5247570d0e23ed52f4362ef7d88eb7a59274e6f74653b4e9cff8225597693087d750c5
bf7fcf604440d8d3d2976ebcd7442c24
license-expression-30.2.0.tar.gz
"

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

Parts Copyright (c) 1995 by C. Blanc and C. Schlick
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="
4d8d430df91c6aac53d2305d3125eae492324e85c4db29d33d452b3848f33a55088e71247c6c72c6a62f4e924a374a
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 rdft 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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<http://members.nbc.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

"

mini_sendmail - accept email on behalf of real sendmail

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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"
```

1.233 apache-servicemix-bundles-kafka-clients 3.6.1_1

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1.235 jackson 2.15.4

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Jackson JSON processor

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

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Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.237 jackson-dataformat-yaml 2.15.4

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1.238 ca-certificates 20240226-r0

1.238.1 Available under license :

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```
#!/usr/bin/env perl
# *****
# *
# *      _ _ _ _ _
# * Project  _||| _\|
# *      / _||| |)||
# *      |(_||| _<|_|
# *      \_||_|/| \_|
# *
# *
# * Copyright (C) 1998 - 2020, Daniel Stenberg, <daniel@haxx.se>, et al.
# *
# * This software is licensed as described in the file COPYING, which
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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/ ) ? "$_" : "$_" } 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", "-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", "-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/^\s{64}\s+/ /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:\V/i) {
    report "Falling back to HTTP";
    $url =~ s/^https:\V/http:\V/i;
}
if(!$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();
$response = $ua->mirror($url, $txt);
if($response && $response->code eq '304') {
    report "Not modified";
    exit 0 if -e $crt && !$opt_f;
}
else {
    $fetched = 1;
    report "Downloaded $txt";
}
if(!$response || $response->code !~ /^(?:200|304)$/) {
    report "Unable to download latest data: "
        . ($response? $response->code . ' - ' . $response->message : "LWP failed");
    exit 1 if -e $crt || !-r $txt;
}
}
}

my $filedate = $response ? $response->last_modified : (stat($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 $aname;
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 \*\*\*\*/);
    }
}
elseif(/^# (Issuer|Serial Number|Subject|Not Valid Before|Not Valid After |Fingerprint \ (MD5\)|Fingerprint
\ (SHA1\)):/) {
    push @precert, $_;
    $valid = 1;
    next;
}
elseif(/^#/\s*$/) {
    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 ($1 eq "MULTILINE_OCTAL") {
        my @timestamp;
        while (<TXT>) {
            last if (/^END/);
            chomp;
            my @octets = split(/\v);
            shift @octets;
            for (@octets) {
                push
                @timestamp, chr(oct);
            }
        }
        # A trailing Z in the timestamp signifies UTC
        if ($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: $scaname is not trusted anymore" if ($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 \"(.*)\"/) {
    $scaname = $1;
}
my %trust_purposes_by_level;
if ($start_of_cert && /^CKA_VALUE MULTILINE_OCTAL/) {
    $cka_value="";
    while (<TXT>) {
        last if (/^END/);
        chomp;
        my @octets = split(/\n/);
        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: $scaname. Trust purpose: $1. Trust Level: $2";
            } elsif ( !is_in_list($2,@valid_mozilla_trust_levels) ) {
                report "Warning:

```

```

Unrecognized trust level for cert: $aname. 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: $aname" if ($opt_v);
} else {
    my $data = $sca_value;
    $sca_value = "";
    my $encoded = MIME::Base64::encode_base64($data, "");
    $encoded =~ s/(\{1,$opt_w\})/$1\n/g;
    my $pem = "-----BEGIN CERTIFICATE-----\n"
        . $encoded
        . "-----END CERTIFICATE-----\n";
    print CRT "\n$aname\n";
    print CRT @precert if($opt_m);
    my $maxLength = length(decode('UTF-8', $aname, Encode::FB_CROAK | Encode::LEAVE_SRC));
    if ($opt_t) {
        foreach my $key (keys %trust_purposes_by_level) {
            my $string = $key . ": " . join(" ", @{$trust_purposes_by_level{$key}});
            $maxLength = List::Util::max( length($string), $maxLength );
        }
    };
    print CRT $string . "\n";
}
}

print CRT ("=" x $maxLength . "\n");
if (!$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: $scaname" if ($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

*

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1.239 jackson-datatype-jdk8 2.15.4

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1.244 angus-activation 2.0.2

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1.245 importlib_resources 6.4.0

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1.247 jaxb-core 4.0.5

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- * <https://github.com/eclipse-ee4j/jax-rpc-ri>

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Project: <https://maven.apache.org/wagon/>

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1.250 accessors-smart 2.5.1

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* /accessors-smart-2-5-1-sources-jar/net/minidev/asm/Accessor.java
* /accessors-smart-2-5-1-sources-jar/net/minidev/asm/BeansAccess.java
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1.251 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/CompressorMapper.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
* /json-smart-2-5-1-sources-jar/net/minidev/json/JSONStreamAware.java
```

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```

1.252 vertx-core 4.5.7

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1.253 distro 1.8.0

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1.255 idna 3.4

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1.256 jackson-annotations 2.15.4

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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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1.257 grpc-util 1.63.0

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```

* /grpc-util-1-63-0-sources-jar/io/grpc/util/AdvancedTlsX509KeyManager.java
* /grpc-util-1-63-0-sources-jar/io/grpc/util/AdvancedTlsX509TrustManager.java
* /grpc-util-1-63-0-sources-jar/io/grpc/util/CertificateUtils.java

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* /grpc-util-1-63-0-sources-jar/io/grpc/util/MutableHandlerRegistry.java

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```
* /grpc-util-1-63-0-sources-jar/io/grpc/util/ForwardingLoadBalancerHelper.java
* /grpc-util-1-63-0-sources-jar/io/grpc/util/ForwardingLoadBalancer.java
* /grpc-util-1-63-0-sources-jar/io/grpc/util/SecretRoundRobinLoadBalancerProvider.java
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```
* /grpc-util-1-63-0-sources-jar/io/grpc/util/HealthProducerHelper.java
* /grpc-util-1-63-0-sources-jar/io/grpc/util/MultiChildLoadBalancer.java
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* /grpc-util-1-63-0-sources-jar/io/grpc/util/OutlierDetectionLoadBalancer.java

* /grpc-util-1-63-0-sources-jar/io/grpc/util/OutlierDetectionLoadBalancerProvider.java

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* /grpc-util-1-63-0-sources-jar/io/grpc/util/ForwardingSubchannel.java

* /grpc-util-1-63-0-sources-jar/io/grpc/util/ForwardingClientStreamTracer.java

* /grpc-util-1-63-0-sources-jar/io/grpc/util/GracefulSwitchLoadBalancer.java

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* /grpc-util-1-63-0-sources-jar/io/grpc/util/TransmitStatusRuntimeExceptionInterceptor.java

* /grpc-util-1-63-0-sources-jar/io/grpc/util/package-info.java

1.258 grpc-protobuf 1.63.0

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* /grpc-protobuf-1-63-0-sources-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java

* /grpc-protobuf-1-63-0-sources-jar/io/grpc/protobuf/package-info.java

```
* /grpc-protobuf-1-63-0-sources-jar/io/grpc/protobuf/StatusProto.java
* /grpc-protobuf-1-63-0-sources-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
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* /grpc-protobuf-1-63-0-sources-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java
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1.259 grpc-stub 1.63.0

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* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/StreamObserver.java

* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/MetadataUtils.java

* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/AbstractStub.java

* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/ClientCalls.java

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* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/AbstractBlockingStub.java
* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/AbstractAsyncStub.java
* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/AbstractFutureStub.java
* /grpc-stub-1-63-0-sources-jar/io/grpc/stub/InternalClientCalls.java
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- * /grpc-stub-1-63-0-sources-jar/io/grpc/stub/ServerCallStreamObserver.java
- * /grpc-stub-1-63-0-sources-jar/io/grpc/stub/ClientResponseObserver.java
- * /grpc-stub-1-63-0-sources-jar/io/grpc/stub/CallStreamObserver.java
- * /grpc-stub-1-63-0-sources-jar/io/grpc/stub/ClientCallStreamObserver.java

1.260 jaraco.context 5.3.0

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1.261 python 3.11.9-r0

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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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(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 direction to make these releases possible.

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1.263 pyc 3.11.9-r0

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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
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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
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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1.266 vertx-grpc 4.5.7

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<one line to give the program's name and an idea of what it does.>

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1.268 ca-certificates-bundle 20240226-r0

1.268.1 Available under license :

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>
* All rights reserved.
*
* This software is licensed under the MIT License.
* Full license available at: http://opensource.org/licenses/MIT
*/
```

Found in path(s):

* /ca-certificates-bundle-20230506-r0-os-alpine-3-18-0-tar-xz/ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c_rehash.c

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

```
#!/usr/bin/env perl
# *****
# *
# * Project      _ _ _ _ _
# *            _||| _\|
# *           / _||| _||
# *          |(_||| _<|_
```



```

# *          \_\|_\|/_\|_\|_\|
# *
# * Copyright (C) 1998 - 2020, Daniel Stenberg, <daniel@haxx.se>, et al.
# *
# * This software is licensed as described in the file COPYING, which
# * you should have received as part of this distribution. The terms
# * are also available at https://curl.haxx.se/docs/copyright.html.
# *
# * You may opt to use, copy, modify, merge, publish, distribute and/or sell
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# * This software is distributed on an "AS IS" basis, WITHOUT
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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", "-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", "-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/^\s*([0-9a-f]{64})\s*/$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($url =~ /^https:\V/i) {
        if($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 $cname;
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 \*\*\*\*\*/);
    }
}
elseif(/^# (Issuer|Serial Number|Subject|Not Valid Before|Not Valid After |Fingerprint \|(MD5\)|Fingerprint
\|(SHA1\)):/) {
    push @precert, $_;
    $valid = 1;
    next;
}
elseif(/^#/\s*$/) {
    undef @precert;
    next;
}
}
chomp;

```

Example:

```

# CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
# \062\060\060\066\061\067\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(/\v);
            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: $scaname is not trusted anymore" if ($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 \"(.*)\"/) {
    $scaname = $1;
}
my %trust_purposes_by_level;
if ($start_of_cert && /^CKA_VALUE MULTILINE_OCTAL/) {
    $cka_value="";
    while (<TXT>) {
        last if (/^END/);
        chomp;
        my @octets = split(/\n/);
        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 $maxLength = 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}});
        $maxLength = List::Util::max( length($string), $maxLength );
      }
    };
    print CRT $string . "\n";
  }
}

print CRT ("=" x $maxLength . "\n");
if (!$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: $scaname" if ($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
```

1.269 slf4j 2.0.13

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Manifest-Version: 1.0

Bnd-LastModified: 1649403223965

Build-Jdk: 1.8.0_292

Built-By: runner

Bundle-Description: This module provides an interface for efficiently writing localized messages out to a SLF4J Logger

Bundle-DocURL: <https://github.com/OpenIdentityPlatform>

Bundle-License: <http://www.opensource.org/licenses/CDDL-1.0>
Bundle-ManifestVersion: 2
Bundle-Name: org.openidentityplatform.commons.i18n-framework.slf4j
Bundle-SymbolicName: org.openidentityplatform.commons.i18n-framework.slf4j
Bundle-Vendor: Open Identity Platform Community
Bundle-Version: 2.0.13
Created-By: Apache Maven Bundle Plugin
Export-Package: org.forgerock.i18n.slf4j;uses:="org.slf4j,org.forgerock.i18n";version="2.0.13"
Import-Package: org.forgerock.i18n;version="[2.0,3)",org.slf4j;version="[1.7,2)"
Tool: Bnd-1.50.0

Found in path(s):
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1.271 scanelf 1.3.7-r2

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Component	Location	License

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Device drivers	src/mesa/drivers/*	MIT, generally

Gallium code src/gallium/ MIT

Ext headers GL/glext.h Khronos
 GL/glxt.h Khronos
 GL/wglxt.h Khronos
 KHR/khrplatform.h Khronos

include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxt.h
include/GL/glxt.h
include/GL/wglxt.h :

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include/KHR/khrplatform.h :

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Dynalink v.5

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```

Found in path(s):

```

* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/SubchannelPool.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/CachedSubchannelPool.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbLoadBalancerProvider.java
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Found in path(s):

```

* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/InternalGrpclbConstantsAccessor.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbNameResolver.java
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* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbState.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/DropType.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbClientLoadRecorder.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/BackendAddressGroup.java
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```

Found in path(s):

```

* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbConstants.java
* /grpc-grpclb-1-63-0-sources-jar/io/grpc/grpclb/GrpclbLoadBalancer.java

```

1.281 tomli 2.0.1

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xwd v1.0.7

xwd utility

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jopt-simple v5.0.4
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|                |                    |                |
| Ext headers    | GL/glext.h         | Khronos        |
|                | GL/glxt.h          | Khronos        |
|                | GL/wglxt.h         | Khronos        |
|                | KHR/khrplatform.h  | Khronos        |

\*\*\*\*\*

----  
include/GL/gl.h :

Mesa 3-D  
graphics library

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```
include/GL/glex.h
include/GL/gltext.h
include/GL/wgltext.h :
```

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CUP Parser Generator for Java v 0.11b

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Gallium code	src/gallium/	MIT
Ext headers	GL/gltext.h	Khronos
	GL/gltext.h	Khronos
	GL/wgltext.h	Khronos
	KHR/khrplatform.h	Khronos

include/GL/gl.h :

Mesa 3-D
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libpng v1.6.40

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1.291 backports.tarfile 1.2.0

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1.292 jsr305 3.0.2

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```
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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java
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1.293 perfmark-api 0.26.0

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1.294 byte-buddy 1.14.17

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1.295 spring-retry 2.0.6

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1.297 zipp 3.19.2

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*/netty-common-4-1-111-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
*/
*/netty-common-4-1-111-final-sources-jar/io/netty/util/NettyRuntime.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
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* /netty-common-4-1-111-final-sources-jar/io/netty/util/AsyncMapping.java
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* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
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 * /netty-common-4-1-111-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
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 * /netty-common-4-1-111-final-sources-jar/io/netty/util/collection/IntObjectMap.java
 * /netty-common-4-1-111-final-sources-jar/io/netty/util/collection/LongObjectMap.java
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* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/Hidden.java
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*/

Found in path(s):

* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/SuppressJava6Requirement.java

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Found in path(s):

* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/EmptyArrays.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/ResourceLeakDetector.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/PromiseTask.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/PendingWrite.java

*

/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java

```

* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/ResourceLeakException.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/Future.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/FutureListener.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/PlatformDependent0.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/Promise.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/Version.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/ReferenceCounted.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/ConstantPool.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/Recycler.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/logging/package-info.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/package-info.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
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```

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Found in path(s):

* /netty-common-4-1-111-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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* /netty-common-4-1-111-final-sources-jar/META-INF/native-image/io.netty/netty-common/native-image.properties

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Found in path(s):

* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/ResourcesUtil.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/ByteProcessorUtils.java

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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

Found in path(s):

```
* /netty-common-4-1-111-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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```

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*/
```

Found in path(s):

```
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/MpscAtomicUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/BaseLinkedAtomicUnpaddedQueue.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/MpscUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpSCChunkedAtomicUnpaddedArrayQueue.java
a
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/package-
info.java
```

```

* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/ConcurrentSequencedCircularUnpaddedArrayQueue.java
va
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpSCChunkedUnpaddedArrayQueue.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/BaseLinkedUnpaddedQueue.java
* /netty-common-4-1-111-final-sources-
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* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpSCGrowableUnpaddedArrayQueue.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/MpscChunkedUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/MpmcUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/ConcurrentCircularUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/MpscLinkedUnpaddedQueue.java

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* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpmcUnpaddedArrayQueue.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PaddedAtomicLong.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpSCUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpSCGrowableAtomicUnpaddedArrayQueue.java
a
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpSCUnboundedAtomicUnpaddedArrayQueue.java
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/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpSCLinkedAtomicUnpaddedQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/package-info.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/MpscGrowableUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/package-info.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/BaseSpSCLinkedUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-

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jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/MpscUnboundedUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpSCUnboundedUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/counters/package-info.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/MpscLinkedAtomicUnpaddedQueue.java
* /netty-common-4-1-111-final-sources-
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* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-common-4-1-111-final-sources-
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ava
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/BaseMpscLinkedAtomicUnpaddedArrayQueue.
java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpSCLinkedUnpaddedQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCLinkedQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/package-info.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/BaseMpscLinkedUnpaddedArrayQueue.java
* /netty-common-4-1-111-final-sources-
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* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpmcAtomicUnpaddedArrayQueue.java

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/netty-common-4-1-111-final-sources-
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* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/MpscChunkedAtomicUnpaddedArrayQueue.java
va
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /netty-common-4-1-111-final-sources-
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* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/MpscGrowableAtomicUnpaddedArrayQueue.java
va
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCGrowableArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/package-info.java
* /netty-common-4-1-111-final-sources-
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* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
*
/netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/MpscUnboundedAtomicUnpaddedArrayQueue.java
java
* /netty-common-4-1-111-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpSCAtomicUnpaddedArrayQueue.java
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* /netty-common-4-1-111-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
*
/netty-common-4-1-111-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java

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* /netty-common-4-1-111-final-sources-jar/io/netty/util/internal/CleanerJava6.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java

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* /netty-common-4-1-111-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/NetUtilInitializations.java

* /netty-common-4-1-111-final-sources-jar/io/netty/util/NetUtilSubstitutions.java

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```
*/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/DomainNameMapping.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/IntegerHolder.java
*/
/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/AsciiString.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/Mapping.java
*/netty-common-4-1-111-final-sources-jar/io/netty/util/ResourceLeakHint.java
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1.312 wheel 0.43.0

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1.313 jaxb-runtime 4.0.5

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- * Source: <https://github.com/codehaus-plexus/plexus-archiver>

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- * Project: <https://testng.org/doc/index.html>

- * Source: <https://github.com/cbeust/testng>

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*

Project: <https://maven.apache.org/wagon/>

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1.314 postgres-sql 42.6.2

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* /jctools-core-4-0-5-sources-jar/org/jctools/util/PaddedAtomicLong.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
*
/jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/MpscLinkedAtomicUnpaddedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/SpSCAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/MpscGrowableAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/jctools-core-4-0-5-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/NonBlockingHashMap.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/SpSCLinkedUnpaddedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/UnsafeAccess.java
* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/SpSCUnboundedAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/MpmcAtomicUnpaddedArrayQueue.java
```

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* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/BaseMpscLinkedAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/SpSCUnboundedUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/BaseSpSCLinkedAtomicUnpaddedArrayQueue.java
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/jctools-core-4-0-5-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/MpscUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/LinkedQueueNode.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/package-info.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/MpscChunkedUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/SpmcArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
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* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/SpSCChunkedUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/MpmcUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/SpmcAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpmcArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/package-info.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/SpSCLinkedAtomicUnpaddedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/ConcurrentAutoTable.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
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* /jctools-core-4-0-5-sources-jar/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/package-info.java
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* /jctools-core-4-0-5-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/MpscChunkedAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/SupportsIterator.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/NonBlockingSetInt.java
*

```

```

/jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/BaseLinkedAtomicUnpaddedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/MpscGrowableUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/counters/package-info.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/package-info.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/BaseLinkedUnpaddedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/BaseLinkedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/package-info.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/NonBlockingHashSet.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/SpSCUnpaddedArrayQueue.java
*
/jctools-core-4-0-5-sources-jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/maps/AbstractEntry.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/SpSCGrowableUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/PortableJvmInfo.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscCompoundQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/MpscUnboundedUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/InternalAPI.java
* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/SpSCChunkedAtomicUnpaddedArrayQueue.java
*
/jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/MpscAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-
jar/org/jctools/queues/atomic/unpadded/SpSCGrowableAtomicUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/util/Pow2.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/MpscLinkedUnpaddedQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/SpSCArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/BaseSpSCLinkedUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/BaseMpscLinkedUnpaddedArrayQueue.java
*
/jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/unpadded/SpMCUnpaddedArrayQueue.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/atomic/unpadded/package-info.java
* /jctools-core-4-0-5-sources-jar/org/jctools/queues/SpSCLinkedQueue.java
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Found in path(s):

* /jctools-core-4-0-5-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

1.316 spring-beans 6.1.10

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```
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/NotWritablePropertyException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
*
/spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/InvalidPropertyException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/Mergeable.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanInstantiationException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyAccessorFactory.java
* /spring-beans-6-1-10-sources-
```

```

jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyMatches.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/ObjectFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/Aware.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyAccessException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/MethodInvocationException.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/InitializingBean.java
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Found in path(s):
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
* /spring-beans-6-1-10-sources-

```

```

jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/InstanceSupplierCodeGenerator.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/aot/DefaultBeanRegistrationCodeFragments.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/RegisteredBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanWrapperImpl.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionPropertiesCodeGenerator.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/MethodDescriptor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanUtils.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ReaderEventListener.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyValuesEditor.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/Qualifier.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/Scope.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/URLEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanNameAware.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/NamedBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/NullValueInNestedPathException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/SimpleTypeConverter.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanInfoFactory.java
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- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/NotReadablePropertyException.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java
- *
- /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java

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- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/FactoryBean.java
- *
- /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ReaderContext.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ScopeNotActiveException.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/Value.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanDefinition.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/QualifierEntry.java

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 * limitations under the License.
 */
/**
 * 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}
 */

```

Found in path(s):

* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationAotProcessor.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}
 */

```

Found in path(s):

```

* /spring-beans-6-1-10-sources-
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jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/TypeMismatchException.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationExcludeFilter.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/SimpleBeanInfoFactory.java

```

```

* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ManagedList.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ManagedMap.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGeneratorFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotContribution.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CharsetEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/AotServices.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyAccessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/ListableBeanFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/AutowiredArguments.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionOverrideException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCode.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsCode.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/aot/AutowiredArgumentsCodeGenerator.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationCode.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/UIDEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyBatchUpdateException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanMetadataElement.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/TypeConverter.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
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- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/SingletonBeanRegistry.java

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- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/ParserContext.java

- * /spring-beans-6-1-10-sources-

- jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java

- * /spring-beans-6-1-10-sources-

- jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java

```

*
/spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/MethodReplacer.java
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```

* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/FatalBeanException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/Location.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeansException.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java

```



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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/Problem.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanWrapper.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyEditorRegistry.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/ConversionNotSupportedException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanReference.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/Configurable.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
*

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/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanFactoryAware.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/EmptyReaderEventListener.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanExpressionException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/support/SortDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionRegistryPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/support/ResourceEditorRegistrar.java

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- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/AutowiredElementResolver.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/annotation/Autowired.java
- *
- /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeGenerator.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/DirectFieldAccessor.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/AutowiredFieldValueResolver.java
- * /spring-beans-6-1-10-sources-
- jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragmentsDecorator.java
- *
- /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/CodeWarnings.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanMetadataAttribute.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/support/ArgumentConvertingMethodInvoker.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
- * /spring-beans-6-1-10-sources-
- jar/org/springframework/beans/factory/aot/BeanDefinitionPropertyValueCodeGeneratorDelegates.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/BeanUtilsRuntimeHints.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/ParseState.java
- *
- /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanFactory.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationAotContribution.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGenerator.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/ExtendedBeanInfo.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragments.java
- * /spring-beans-6-1-10-sources-
- jar/org/springframework/beans/factory/annotation/JakartaAnnotationsRuntimeHints.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/TypedStringValue.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.java
- *
- /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotProcessor.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/TypeConverterDelegate.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
- * /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ManagedProperties.java

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* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ReplaceOverride.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotContribution.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationKey.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/support/MutableSortDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/TypeConverterSupport.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/NullBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/BeanCreationException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/MethodOverride.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/PropertyPathFactoryBean.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/RuntimeBeanNameReference.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyAccessorUtils.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/aot/BeanInstanceSupplier.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/InstanceSupplier.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/StandardBeanInfoFactory.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/support/PropertyComparator.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/YamlProcessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyEditorRegistrySupport.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/PropertyValue.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/propertyeditors/PathEditor.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
* /spring-beans-6-1-10-sources-
jar/org/springframework/beans/factory/aot/AutowiredMethodArgumentsResolver.java

```

```
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
*
/spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /spring-beans-6-1-10-sources-jar/org/springframework/beans/factory/InjectionPoint.java
```

1.317 spring-framework 6.1.10

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```
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/CodeWriter.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/MethodSpec.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/NameAllocator.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/AnnotationSpec.java
*
/spring-core-6-1-10-sources-jar/org/springframework/javapoet/ParameterSpec.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/CodeBlock.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/TypeName.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/TypeSpec.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/ParameterizedTypeName.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/ArrayTypeName.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/TypeVariableName.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/WildcardTypeName.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/JavaFile.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/Util.java
* /spring-core-6-1-10-sources-jar/org/springframework/javapoet/FieldSpec.java
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- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/OrderUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/BridgeMethodResolver.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/MethodIntrospector.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/Resource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/MultiValueMapAdapter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToRegexConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/SimpleAliasRegistry.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/support/SpringFactoriesLoaderRuntimeHints.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/TypeDescriptor.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/ResourceUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/function/SupplierUtils.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/CoroutinesUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/KotlinDetector.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/UrlResource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/OutputStreamPublisher.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AttributeMethods.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/codec/ResourceDecoder.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/codec/Decoder.java

```

* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/BindingReflectionHintsRegistrar.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/SerializationUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/StreamUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/ResolvableType.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/StringUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToPatternConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBinding.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/annotation/Reflective.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/io/InputStreamResource.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DataBufferUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/ClassUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotatedMethod.java
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```

* /spring-core-6-1-10-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/Ordered.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/ReactiveAdapter.java

```

```

* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/MultiValueMap.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/RouteMatcher.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/DecoratingProxy.java
*
/spring-core-6-1-10-sources-jar/org/springframework/util/unit/DataUnit.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/PathMatcher.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
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* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-6-1-10-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/ResourceLoader.java

```



```

*
/spring-core-6-1-10-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-6-1-10-sources-jar/org/springframework/asm/SpringAsmInfo.java
*
/spring-core-6-1-10-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
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```

* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/OverridingClassLoader.java

```

```

* /spring-core-6-1-10-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
*
/spring-core-6-1-10-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
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```

* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/AddInitTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/MethodInfo.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/RejectModifierPredicate.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/MethodInfoTransformer.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/CallbackHelper.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/MixinEverythingEmitter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/CallbackInfo.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/InterfaceMaker.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassInfo.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/AbstractClassFilterTransformer.java
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- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ProcessSwitchCallback.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Transformer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/FieldVisitorTee.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/FixedKeySet.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/DuplicatesPredicate.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/AddPropertyTransformer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassFilter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ObjectSwitchCallback.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/FastMember.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableStrategy.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Customizer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/Callback.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/FixedValue.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/FastConstructor.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassVisitorTee.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/MixinBeanEmitter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassEmitterTransformer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BulkBean.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BeanGenerator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/AddDelegateTransformer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Predicate.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassTransformerTee.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/NamingPolicy.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/util/ParallelSorter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassesKey.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BulkBeanException.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/ProxyRefDispatcher.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableTransformer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassGenerator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/AccessFieldTransformer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Block.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/util/SorterTemplate.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/MethodVisitorTee.java

```

* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/FieldProviderTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/ConstructorDelegate.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassNameReader.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/LazyLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/InvocationHandler.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Constants.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassTransformerFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/MethodFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/TransformingClassLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldEnabled.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/TransformingClassGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/FieldProvider.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/util/ParallelSorterEmitter.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/core/DefaultGeneratorStrategy.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/TinyBitSet.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassReaderGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/CodeGenerationException.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/util/StringSwitcher.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Signature.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Local.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/NoOp.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/Converter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/Dispatcher.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ClassEmitter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/AnnotationVisitorTee.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/MethodFilterTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldCallback.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/GeneratorStrategy.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/AbstractClassTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ProcessArrayCallback.java

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Found in path(s):

- * /spring-core-6-1-10-sources-jar/org/springframework/core/task/TaskTimeoutException.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/FailureCallback.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/FieldHint.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/DefaultResourceLoader.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/FileSystemGeneratedFiles.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/predicate/ProxyHintsPredicates.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ExecutableMode.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/GeneratedMethods.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/TouchableDataBuffer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/PropertiesPersister.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/MemberHint.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ProxyHints.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/MethodReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/SerializationHints.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/CloseableDataBuffer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/xml/DomContentHandler.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/xml/StaxUtils.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/codec/AbstractEncoder.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
- * /spring-core-6-1-10-sources-
- jar/org/springframework/aot/hint/annotation/RegisterReflectionForBindingProcessor.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/xml/DomUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/VfsUtils.java
- *

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/spring-core-6-1-10-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/annotation/SimpleReflectiveProcessor.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/substitution/Target_ClassFinder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/ResourceRegion.java
*
/spring-core-6-1-10-sources-jar/org/springframework/aot/hint/RuntimeHintsRegistrar.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/FileNativeConfigurationWriter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DataBufferInputStream.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/feature/ThrowawayClassLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/Netty5BufferEncoder.java
*
/spring-core-6-1-10-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AliasFor.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/function/ThrowingFunction.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DataBufferOutputStream.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ConditionalHint.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/style/SimpleValueStyler.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/GeneratedMethod.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/annotation/ReflectiveProcessor.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/NativeConfigurationWriter.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/NestedExceptionUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/function/ThrowingBiFunction.java

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* /spring-core-6-1-10-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/substitution/Target_Introspector.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/predicate/ResourceHintsPredicates.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/predicate/SerializationHintsPredicates.java
* /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/ClassNameGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/Netty5BufferDecoder.java
*

/spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/function/ThrowingConsumer.java

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* /spring-core-6-1-10-sources-jar/org/springframework/util/JdkIdGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
*

/spring-core-6-1-10-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java

* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java

* /spring-core-6-1-10-sources-jar/org/springframework/core/serializer/DefaultSerializer.java

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- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/AbstractTypeReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/OrderComparator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ResourcePatternHint.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ExecutableHint.java
- * /spring-core-6-1-10-sources-
- jar/org/springframework/aot/generate/UnsupportedTypeValueCodeGenerationException.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/ParameterizedTypeReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/log/LogFormatUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/SystemPropertyUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/support/FilePatternResourceHintsRegistrar.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/backoff/BackOff.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/util/DigestUtils.java
- * /spring-core-6-1-10-sources-
- jar/org/springframework/core/annotation/SynthesizedMergedAnnotationInvocationHandler.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/xml/TransformerUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/TypeHintExtensions.kt
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/TypeHint.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/AbstractEnvironment.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/MethodClassKey.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/ReflectionHintsWriter.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/NamedThreadLocal.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/style/DefaultValueStyler.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java

- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/support/PathMatchingResourcePatternResolverRuntimeHints.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/ConcurrentLruCache.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/ByteArrayResource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/ValueCodeGeneratorDelegates.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/ResourceHintsWriter.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/task/TaskRejectedException.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/comparator/BooleanComparator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ReflectionTypeReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/DescriptiveResource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/SerializationHintsExtensions.kt
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/support/ClassHintUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ResourcePatternHints.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/StringValueResolver.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/DefaultGenerationContext.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/CommandLinePropertySource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/GeneratedClass.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/task/VirtualThreadDelegate.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/GeneratedClasses.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/FileCopyUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/util/FileSystemUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/function/SingletonSupplier.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/ObjectUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/PropertySourceFactory.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/GenericTypeResolver.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/unit/DataSize.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/TypeReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/MethodInvoker.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/ConversionService.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/task/support/ContextPropagatingTaskDecorator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/AutoPopulatingList.java

- * /spring-core-6-1-10-sources-jar/org/springframework/util/MimeTypeUtils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/MethodParameter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/comparator/Comparators.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/MethodName.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/ValueCodeGenerator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/PropertySourceDescriptor.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/lang/Nullable.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/buffer/Netty5DataBuffer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ReflectionHintsExtensions.kt
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BeanMap.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/Base64Utils.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/MemberCategory.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/AnnotationTypeMappings.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ResourceHints.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/codec/CharBufferDecoder.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/CompositePropertySource.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/type/StandardClassMetadata.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/SimpleTypeReference.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/SerializationHintsWriter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/AotDetector.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/CollectionFactory.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/AppendableConsumerInputStreamSource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/comparator/ComparableComparator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/UnmodifiableMultiValueMap.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/PropertySourceProcessor.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/InstanceFilter.java
- *
- /spring-core-6-1-10-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/ResourceHintsExtensions.kt
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/ProxyHintsWriter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
- * /spring-core-6-1-10-sources-jar/org/springframework/util/AntPathMatcher.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/JdkProxyHintExtensions.kt
- * /spring-core-6-1-10-sources-jar/org/springframework/core/Conventions.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/aot/generate/ValueCodeGenerationException.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/task/TaskExecutor.java
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- /spring-core-6-1-10-sources-jar/org/springframework/aot/hint/JdkProxyHint.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/type/classreading/ClassFormatException.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/env/PropertySource.java
- * /spring-core-6-1-10-sources-

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jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
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* /spring-core-6-1-10-sources-jar/org/springframework/aot/nativex/feature/PreComputeFieldFeature.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/ConversionFailedException.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/task/support/CompositeTaskDecorator.java
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* /spring-core-6-1-10-sources-
jar/org/springframework/aot/hint/support/ObjectToObjectConverterRuntimeHints.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/Environment.java
*

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/spring-core-6-1-10-sources-jar/org/springframework/core/task/VirtualThreadTaskExecutor.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/concurrent/FutureAdapter.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/function/ThrowingSupplier.java
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* /spring-core-6-1-10-sources-
jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
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* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
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/spring-core-6-1-10-sources-jar/org/springframework/core/io/FileSystemResource.java
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* /spring-core-6-1-10-sources-jar/org/springframework/core/NestedRuntimeException.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/NativeDetector.java
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* /spring-core-6-1-10-sources-jar/org/springframework/asm/FieldVisitor.java  
*  
/spring-core-6-1-10-sources-jar/org/springframework/asm/Type.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/TypePath.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/RecordComponentVisitor.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/AnnotationVisitor.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/ByteVector.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/RecordComponentWriter.java  
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* /spring-core-6-1-10-sources-jar/org/springframework/asm/FieldWriter.java  
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/spring-core-6-1-10-sources-jar/org/springframework/asm/MethodWriter.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/ClassWriter.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/Label.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/Context.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/MethodVisitor.java  
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* /spring-core-6-1-10-sources-jar/org/springframework/asm/ClassTooLargeException.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/Constants.java  
* /spring-core-6-1-10-sources-jar/org/springframework/asm/ClassVisitor.java  
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- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
- * /spring-core-6-1-10-sources-jar/org/springframework/cglib/SpringCglibInfo.java
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* /spring-core-6-1-10-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java

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- *

- /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
- * /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
- * /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
- * /spring-core-6-1-10-sources-jar/org/springframework/objenesis/ObjenesisException.java
- * /spring-core-6-1-10-sources-jar/org/springframework/objenesis/ObjenesisStd.java

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* /spring-core-6-1-10-sources-
jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/Objenesis.java
*
/spring-core-6-1-10-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /spring-core-6-1-10-sources-
jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
* /spring-core-6-1-10-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiatorBase.java
*
/spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/basic/AccessibleInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /spring-core-6-1-10-sources-
jar/org/springframework/objenesis/instantiator/basic/ObjectStreamClassInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /spring-core-6-1-10-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
*
/spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /spring-core-6-1-10-sources-
jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /spring-core-6-1-10-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
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* /spring-core-6-1-10-sources-jar/org/springframework/core/style/ValueStyler.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
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* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/ProtocolResolver.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/ErrorHandler.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/converter/ConverterRegistry.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/backoff/BackOffExecution.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
* /spring-core-6-1-10-sources-

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jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java

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* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/EncodingException.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
*
/spring-core-6-1-10-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/StreamConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/DecodingException.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/EnvironmentCapable.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
*
/spring-core-6-1-10-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/ClassMetadata.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/ResolvableTypeProvider.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
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*
/spring-core-6-1-10-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/style/ToStringStyler.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/InvalidMimeTypeException.java
* /spring-core-6-1-10-sources-jar/org/springframework/core/codec/CodecException.java
* /spring-core-6-1-10-sources-jar/org/springframework/util/xml/AbstractXMLReader.java
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* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassFilterTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java

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* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/MethodProxy.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/MethodDelegate.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/ClassTransformerChain.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/Mixin.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/InvocationHandlerGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/DefaultNamingPolicy.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/CallbackGenerator.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/MethodInterceptorGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/DebuggingClassWriter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/AsmApi.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/FastMethod.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/NoOpGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/MulticastDelegate.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/Proxy.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/reflect/FastClass.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/ReflectUtils.java
*
/spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/AbstractClassLoader.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/MethodWrapper.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/TypeUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/CodeEmitter.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/EmitUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/transform/impl/AddStaticInitTransformer.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/core/CollectionUtils.java
* /spring-core-6-1-10-sources-jar/org/springframework/cglib/proxy/MixinEmitter.java

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org.springframework.core.ReactiveAdapterRegistry\$SpringCoreBlockHoundIntegration

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jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /spring-aspects-6-1-10-sources-jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj
*
/spring-aspects-6-1-10-sources-
jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
* /spring-aspects-6-1-10-sources-
jar/org/springframework/transaction/aspectj/AspectJJtaTransactionManagementConfiguration.java
* /spring-aspects-6-1-10-sources-jar/org/springframework/cache/aspectj/AspectJJCachingConfiguration.java
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* /spring-aspects-6-1-10-sources-jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
* /spring-aspects-6-1-10-sources-jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj
* /spring-aspects-6-1-10-sources-jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
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1.319 spring-tx 6.1.10

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- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/DataIntegrityViolationException.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
- *
 - /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/TransactionRuntimeHints.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
 - *
 - /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/AbstractReactiveTransactionManager.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
 - * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
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- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/support/DaoSupport.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/JtaTransactionObject.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/InvalidTimeoutException.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java

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- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionCallback.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/jca/support/SimpleBootstrapContext.java
- * /spring-tx-6-1-10-sources-
- jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionPhase.java

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- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java

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- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/PlatformTransactionManager.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationUtils.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionalEventListener.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/DefaultTransactionStatus.java

- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorExtensions.kt
- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/support/DataAccessUtils.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/TransactionBeanRegistrationAotProcessor.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerAdapter.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/Isolation.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/SmartTransactionObject.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionTemplate.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionDefinition.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionStatus.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/RestrictedTransactionalEventListenerFactory.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/Transactional.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/ReactiveTransactionManager.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerMethodAdapter.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
- *
- /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/JtaTransactionManager.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerSynchronization.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionExecution.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/SavepointManager.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionalEventPublisher.java
- * /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java

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* /spring-tx-6-1-10-sources-
jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionExecutionListener.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionalOperator.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
* /spring-tx-6-1-10-sources-
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /spring-tx-6-1-10-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/event/TransactionalApplicationListener.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/ConfigurableTransactionManager.java
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/spring-tx-6-1-10-sources-jar/org/springframework/transaction/ReactiveTransaction.java
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* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionUsageException.java
* /spring-tx-6-1-10-sources-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/dao/QueryTimeoutException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/TransientDataAccessResourceException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/TransactionFactory.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/NoTransactionException.java

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```

* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionTimedOutException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/EmptyResultDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/RecoverableDataAccessException.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/InvalidIsolationLevelException.java
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* /spring-tx-6-1-10-sources-jar/org/springframework/dao/CleanupFailureDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/dao/DuplicateKeyException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/PessimisticLockingFailureException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/CannotSerializeTransactionException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/CannotAcquireLockException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/ConcurrencyFailureException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
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* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionManager.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java

* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionOperations.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
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* /spring-tx-6-1-10-sources-jar/org/springframework/dao/NonTransientDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
*
/spring-tx-6-1-10-sources-jar/org/springframework/dao/NonTransientDataAccessResourceException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/DataRetrievalFailureException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/DataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/OptimisticLockingFailureException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/TransientDataAccessException.java
* /spring-tx-6-1-10-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /spring-tx-6-1-10-sources-jar/org/springframework/transaction/TransactionSystemException.java
* /spring-tx-6-1-10-sources-
jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /spring-tx-6-1-10-sources-jar/org/springframework/dao/UncategorizedDataAccessException.java

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1.321 spring-context 6.1.10

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```
*/spring-context-6-1-10-sources-jar/org/springframework/validation/annotation/Validated.java
*/spring-context-6-1-10-sources-jar/org/springframework/context/annotation/PropertySources.java
*/spring-context-6-1-10-sources-jar/org/springframework/format/AnnotationFormatterFactory.java
*
/spring-context-6-1-10-sources-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
*/spring-context-6-1-10-sources-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
*/spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationContext.java
*/spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
```

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- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiAccessor.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
- *
- /spring-context-6-1-10-sources-
- jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
- * /spring-context-6-1-10-sources-jar/org/springframework/stereotype/Indexed.java
- * /spring-context-6-1-10-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/MetricType.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/Task.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/MessageSourceResolvable.java
- *
- /spring-context-6-1-10-sources-
- jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
- * /spring-context-6-1-10-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
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/spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-6-1-10-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-6-1-10-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
*
/spring-context-6-1-10-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
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* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ImportAware.java
*
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* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/OneTimeTask.java
*
/spring-context-6-1-10-sources-jar/org/springframework/cache/support/NoOpCache.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ImportRuntimeHints.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/EnableCaching.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/Cache.java
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* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AnnotationConfigUtils.java
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* /spring-context-6-1-10-sources-jar/org/springframework/context/event/ApplicationEventMulticaster.java
*
/spring-context-6-1-10-sources-
jar/org/springframework/scheduling/support/ScheduledTaskObservationContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/annotation/ValidationAnnotationUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/SchedulingAwareRunnable.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/support/StandardScriptEvaluator.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/FieldError.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Profile.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/support/NoOpCacheManager.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/AsyncAnnotationAdvisor.java
*
/spring-context-6-1-10-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/SchedulingTaskExecutor.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/PayloadApplicationEvent.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /spring-context-6-1-10-sources-jar/org/springframework/stereotype/Service.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Bean.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/ValidationUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
*
/spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/SimpleTriggerContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/Errors.java
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- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/TaskSchedulerRouter.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/DelayedTask.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/Validator.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/event/EventListenerMethodProcessor.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/aot/ApplicationContextAotGenerator.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ProfileCondition.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/context/support/ApplicationObjectSupport.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiObjectTargetSource.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/SimpleErrors.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/PropertySource.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/format/support/FormattingConversionServiceRuntimeHints.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/CacheConfig.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/NoOpTaskScheduler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/format/number/PercentStyleFormatter.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/scheduling/support/ScheduledTaskObservationDocumentation.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ComponentScan.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/ObjectNameManager.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/method/MethodValidationException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/IntervalTask.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/Cacheable.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/format/support/DefaultFormattingConversionService.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContextFactory.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ResourceElementResolver.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/BeanMethod.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/NotificationListenerHolder.java
- * /spring-context-6-1-10-sources-jar/org/springframework/ui/ConcurrentModel.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/DirectFieldBindingResult.java
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/spring-context-6-1-10-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/AsyncResult.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/i18n/LocaleContextHolder.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/support/StandardScriptFactory.java
* /spring-context-6-1-10-sources-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/CompositeCronField.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/FixedRateTask.java
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* /spring-context-6-1-10-sources-jar/org/springframework/validation/SmartValidator.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/TypedValidator.java
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* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-6-1-10-sources-
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* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
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* /spring-context-6-1-10-sources-
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* /spring-context-6-1-10-sources-jar/org/springframework/context/support/DelegatingMessageSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/event/SourceFilteringListener.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/support/NullValue.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Configuration.java
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* /spring-context-6-1-10-sources-jar/org/springframework/validation/method/MethodValidator.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
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jar/org/springframework/context/aot/ApplicationContextInitializationCodeGenerator.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AnnotatedElementKey.java
* /spring-context-6-1-10-sources-

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jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/MBeanExporter.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/JmxUtils.java
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/spring-context-6-1-10-sources-jar/org/springframework/cache/support/SimpleValueWrapper.java
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* /spring-context-6-1-10-sources-
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* /spring-context-6-1-10-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
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* /spring-context-6-1-10-sources-
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* /spring-context-6-1-10-sources-jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /spring-context-6-1-10-sources-
jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
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/spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Lazy.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/ApplicationListenerDetector.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/Trigger.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/method/DefaultMethodValidationResult.java
* /spring-context-6-1-10-sources-jar/org/springframework/stereotype/Controller.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/expression/MethodBasedEvaluationContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/MBeanClientInterceptor.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/ObjectError.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/annotation/ImportAwareAotBeanPostProcessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/BeanPropertyBindingResult.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/SimpleKey.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/PropertySourceRegistry.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /spring-context-6-1-10-sources-
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* /spring-context-6-1-10-sources-
jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
*
/spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/stereotype/Component.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/TriggerContext.java

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* /spring-context-6-1-10-sources-
jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/BindingResultUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/DateTimeConverters.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/support/FormattingConversionService.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
*
/spring-context-6-1-10-sources-
jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /spring-context-6-1-10-sources-
jar/org/springframework/ejb/config/LocalStatelessSessionBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationListener.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/PeriodicTrigger.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/BindException.java
* /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiObjectFactoryBean.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/index/CandidateComponentsIndex.java
*
/spring-context-6-1-10-sources-jar/org/springframework/stereotype/Repository.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/event/EventExpressionRootObject.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorFactoryBean.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationEventPublisher.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/AbstractBindingResult.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/MessageSourceSupport.java
* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/annotation/ScheduledAnnotationReactiveSupport.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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```
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Conditional.java
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- * /spring-context-6-1-10-sources-
- jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationContextInitializer.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConditionContext.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/MessageCodeFormatter.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/MapBindingResult.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ImportSelector.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationStartupAware.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
- * /spring-context-6-1-10-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java

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 * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ComponentScans.java
 *
 /spring-context-6-1-10-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
 * /spring-context-6-1-10-sources-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ImportResource.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/event/EventListenerFactory.java
 * /spring-context-6-1-10-sources-
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 * /spring-context-6-1-10-sources-
 jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scripting/ScriptEvaluator.java
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 * /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
 * /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java

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/spring-context-6-1-10-sources-jar/org/springframework/format/Parser.java
* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/Schedules.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/Printer.java
* /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
*
/spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/support/CompositeCacheManager.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
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Found in path(s):

```

* /spring-context-6-1-10-sources-jar/org/springframework/context/MessageSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java

```

```

* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
* /spring-context-6-1-10-sources-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/CacheManager.java
*
/spring-context-6-1-10-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Import.java
* /spring-context-6-1-10-sources-
jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
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```

Found in path(s):

```

* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Description.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/i18n/LocaleContext.java
* /spring-context-6-1-10-sources-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/FilterType.java
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Found in path(s):

- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/jmx/MBeanServerNotFoundException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/MBeanExportException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/naming/SelfNaming.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/config/ContextNamespaceHandler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/MessageCodesResolver.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/Phased.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/EnableMBeanExport.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/BindingErrorProcessor.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/context/HierarchicalMessageSource.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationContextAware.java
- * /spring-context-6-1-10-sources-jar/org/springframework/format/Formatter.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
- * /spring-context-6-1-10-sources-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/SchedulingException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scripting/ScriptSource.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/ApplicationContextException.java

```

* /spring-context-6-1-10-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/NoSuchMessageException.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/JmxException.java
* /spring-context-6-1-10-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-1-10-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.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
*/

```

```

Found in path(s):
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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- * /spring-context-6-1-10-sources-jar/org/springframework/context/Lifecycle.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheResolver.java
- * /spring-context-6-1-10-sources-
- jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Scope.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/AbstractPropertyBindingResult.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
- *
- /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/YearFormatter.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
- * /spring-context-6-1-10-sources-jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiObjectLocator.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scripting/config/LangNamespaceUtils.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/config/CacheManagementConfigUtils.java
- * /spring-context-6-1-10-sources-jar/org/springframework/validation/DefaultBindingErrorProcessor.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/EmbeddedValueResolverAware.java
- * /spring-context-6-1-10-sources-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
- *
- /spring-context-6-1-10-sources-
- jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiTemplate.java
- * /spring-context-6-1-10-sources-jar/org/springframework/format/FormatterRegistry.java
- * /spring-context-6-1-10-sources-jar/org/springframework/jndi/JndiLocatorSupport.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/expression/BeanFactoryResolver.java
- * /spring-context-6-1-10-sources-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
- * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java

```

* /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /spring-context-6-1-10-sources-
jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ImportRegistry.java
*
/spring-context-6-1-10-sources-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/annotation/NumberFormat.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/DependsOn.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/MessageSourceAccessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/MonthFormatter.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AdviceMode.java
* /spring-context-6-1-10-sources-jar/org/springframework/scripting/ScriptCompilationException.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/MBeanExportOperations.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AdviceModeImportSelector.java
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```

* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /spring-context-6-1-10-sources-
jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/SimpleAsyncTaskScheduler.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/support/AbstractApplicationContext.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/QuartzCronField.java

```

* /spring-context-6-1-10-sources-jar/org/springframework/validation/beanvalidation/MethodValidationAdapter.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/TaskScheduler.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
 *
 /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/event/GenericApplicationListener.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/validation/method/ParameterValidationResult.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/BitsCronField.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConfigurationClassEnhancer.java
 * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/CronExpression.java
 *
 /spring-context-6-1-10-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/aot/ReflectiveProcessorBeanFactoryInitializationAotProcessor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/event/GenericApplicationListenerDelegate.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/aot/AbstractAotProcessor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/Scheduled.java
 * /spring-context-6-1-10-sources-jar/org/springframework/validation/AbstractErrors.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/CronTrigger.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/event/ContextRefreshedEvent.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
 *
 /spring-context-6-1-10-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
 * /spring-context-6-1-10-sources-jar/org/springframework/validation/DataBinder.java
 * /spring-context-6-1-10-sources-jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/validation/method/ParameterErrors.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ExecutorLifecycleDelegate.java
 * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheOperationSource.java
 *
 /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/aot/KotlinReflectionBeanRegistrationAotProcessor.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Condition.java

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* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/ConfigurationClass.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/Primary.java
* /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/DateFormatter.java
* /spring-context-6-1-10-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/event/ContextClosedEvent.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/SmartLifecycle.java
*
/spring-context-6-1-10-sources-jar/org/springframework/context/support/GenericApplicationContext.java
* /spring-context-6-1-10-sources-jar/org/springframework/scheduling/support/CronField.java
* /spring-context-6-1-10-sources-
jar/org/springframework/scheduling/support/DefaultScheduledTaskObservationConvention.java
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```

* /spring-context-6-1-10-sources-jar/org/springframework/ui/context/Theme.java
* /spring-context-6-1-10-sources-jar/org/springframework/context/aot/ContextAotProcessor.java
* /spring-context-6-1-10-sources-
jar/org/springframework/context/aot/RuntimeHintsBeanFactoryInitializationAotProcessor.java

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*
 /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
 * /spring-context-6-1-10-sources-jar/org/springframework/cache/interceptor/LoggingCacheErrorHandler.java
 * /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/annotation/TypeFilterUtils.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/FixedDelayTask.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/aot/BeanFactoryInitializationAotContributions.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/aot/AotApplicationContextInitializer.java
 * /spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/Caching.java
 * /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
 *
 /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/annotation/ManagedResource.java
 * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
 * /spring-context-6-1-10-sources-jar/org/springframework/context/support/AbstractMessageSource.java
 * /spring-context-6-1-10-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
 * /spring-context-6-1-10-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
 * /spring-context-6-1-10-sources-jar/org/springframework/ui/Model.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/config/ScheduledTask.java
 * /spring-context-6-1-10-sources-jar/org/springframework/ui/context/HierarchicalThemeSource.java
 * /spring-context-6-1-10-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
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 * /spring-context-6-1-10-sources-jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
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* /spring-context-6-1-10-sources-jar/org/springframework/ui/context/ThemeSource.java
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/spring-context-6-1-10-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
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 */
/**
 * Use the proprietary WITH ROLLUP or WITH CUBE clause.
 */
```

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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.

<p>

- * This concurrency strategy is not compatible with
- * serializable transaction isolation.
- *
- * @see AccessType#READ_WRITE
- */

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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/CacheConcurrencyStrategy.java

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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/beanvalidation/HibernateTraversableResolver.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/internal/TableDeleteCustomSql.java
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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/collection/mutation/CollectionMutationTarget.java
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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/jdbc/UpsertOperation.java
 * /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/IdGeneratorResolverSecondPass.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/spi/AdditionalMappingContributor.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/AnyBinder.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/mutation/AbstractMutationCoordinator.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/cfg/QuerySettings.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/SqlAstTranslatorWithMerge.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/procedure/ParameterTypeException.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/SimpleToOneFkSecondPass.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedColumn.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/PrimitiveArrayBinder.java
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 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/Nullability.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/cfgxml/internal/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/ArrayBinder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/NullnessRestriction.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/RestrictedTableMutation.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperation.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/PropertyInferredData.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/cfg/JpaComplianceSettings.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableMutationBuilder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/mapping/NaturalId.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/internal/TableUpdateCustomSql.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/mutation/InsertCoordinator.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/java/spi/JsonJavaType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/ColumnsBuilder.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilderStandard.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/loader/ast/spi/EntityBatchLoader.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilderSkipped.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/archive/spi/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/mutation/AttributeAnalysis.java
 * /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/archive/scan/spi/package-info.java
 * /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/loader/ast/spi/EntityLoader.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/GeneratorBinder.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/mutation/UpdateValuesAnalysis.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/SetBasicValueTypeSecondPass.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/SoftDeleteHelper.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/loader/ast/internal/CollectionBatchLoaderArrayParam.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/IndexOrUniqueKeySecondPass.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/IndexedConsumer.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/loader/ast/spi/BatchLoader.java
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 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/beanvalidation/IntegrationException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/internal/DiscriminatorTypeImpl.java

- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/jdbc/JdbcValueDescriptor.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/TableMapping.java
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- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/query/sqm/mutation/internal/temptable/SoftDeleteExecutionDelegate.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/persister/collection/mutation/UpdateRowsCoordinatorOneToMany.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/cfg/PersistenceSettings.java
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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/DiscriminatorValueDetails.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/hql/internal/SqmTreeCreationHelper.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/internal/TableUpdateStandard.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/EnumTypeMarshalling.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/id/insert/InsertReturningDelegate.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/collection/mutation/RowMutationOperations.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/AggregatedIdentifierMapping.java
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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/ResultSetMappingContainer.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/PreparableMutationOperation.java
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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/AbstractPropertyHolder.java
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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/NoBatchKeyAccess.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/SoftDeleteType.java
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- /hibernate-core-6-4-9-final-sources-jar/org/hibernate/loader/ast/spi/CollectionBatchLoader.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/insert/InsertStatement.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/property/access/internal/AccessStrategyHelper.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/EntityMutationOperationGroup.java
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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/DefaultDiscriminatorConverter.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/AggregateComponentSecondPass.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/IndexedBiConsumer.java
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- /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/ForeignKeyType.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/PropertyHolder.java
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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/SqlAstTranslatorWithUpsert.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/cfgxml/package-info.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/mutation/JdbcValueBindings.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/ColumnWriteFragment.java
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* /hibernate-core-6-4-9-final-sources-
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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableInsertBuilder.java
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/hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/mutation/ParameterUsage.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/TableInsert.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/StandardConverter.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/internal/MappingBinder.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/beanvalidation/ActivationContext.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/mapping/EntityOrMappedSuperclass.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/internal/ClassPropertyHolder.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/mutation/DeleteCoordinatorSoft.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/mutation/package-info.java
* /hibernate-core-6-4-9-final-sources-
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/hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/internal/OneToManyCollectionPart.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/property/access/spi/EnhancedSetterMethodImpl.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/CustomSqlMutation.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/cfg/MetadataSourceType.java
* /hibernate-core-6-4-9-final-sources-
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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/mapping/DiscriminatorMapping.java
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/hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/model/ast/TableDelete.java
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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/mapping/AttributesContainer.java
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*/
/*

```

- * 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
*/

```

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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java

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*/
/**
* In {@link plain jakarta.persistence.InheritanceType#SINGLE_TABLE single table}
* inheritance, subclasses share a table with the root class by definition. But
* for {@link plain jakarta.persistence.InheritanceType#JOINED joined} or
* {@link plain 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.)
*/

```


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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/mapping/RootClass.java

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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/spi/MetamodelImplementor.java

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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/xsd/mapping/mapping-3.1.0.xsd

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* /hibernate-core-6-4-9-final-sources-

jar/org/hibernate/query/sqm/produce/function/NamedFunctionDescriptorBuilder.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/SqmDmlStatement.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmOverflow.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/DB2zSqlAstTranslator.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperationQuerySelect.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/QueryParameterJavaObjectType.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/log/SubSystemLogging.java

*

/hibernate-core-6-4-9-final-sources-

jar/org/hibernate/sql/results/internal/RowTransformerDatabaseSnapshotImpl.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/function/array/H2ArrayFillFunction.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/resource/jdbc/package-info.java

* /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/internal/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sql/spi/NativeQueryImplementor.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/spi/AbstractSqlAstWalker.java
 * /hibernate-core-6-4-9-final-sources-
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/sql/internal/BasicValuedPathInterpretation.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/exec/internal/AbstractJdbcParameter.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metadata/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/predicate/SqmTruthnessPredicate.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/java/spi/CollectionJavaType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/JdbcMappingContainer.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/query/sqm/mutation/internal/temptable/RestrictedDeleteExecutionDelegate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/results/internal/StandardRowReader.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmCollation.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/UnknownParameterException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/ImmutableEntityUpdateQueryHandlingMode.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/select/SelectStatement.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/function/array/H2ArrayRemoveFunction.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/internal/InputStreamAccessXmlSource.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/SqmCopyContext.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/domain/AbstractSqmSimplePath.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/criteria/JpaFetchParent.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/id/uuid/UuidGenerator.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/results/complete/ModelPartReferenceBasic.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/TypeRegistration.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/query/sqm/mutation/internal/temptable/InsertExecutionDelegate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/predicate/SqmEmptinessPredicate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/results/graph/basic/BasicFetch.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/ordering/ast/RootSequencePart.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/SemanticQueryWalker.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tool/schema/internal/script/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/hql/internal/HqlParseTreeBuilder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/results/graph/entity/AbstractEntityInitializer.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/Instantiator.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/delete/DeleteStatement.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/resource/beans/container/internal/CdiBeanContainerBuilder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/internal/SqmSelectionQueryImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/expression/AbstractSqmParameter.java
 *
 /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/metamodel/mapping/internal/IdClassRepresentationStrategy.java

- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/cache/spi/support/AbstractEntityDataAccess.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/exec/spi/StatementCreatorHelper.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmTreatedPath.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/EmbeddableMappingType.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/collections/ReadOnlyMap.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/function/array/OracleArrayLengthFunction.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/sql/results/graph/embeddable/internal/NestedRowProcessingState.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/mapping/ForeignKeyDescriptor.java
- *
- /hibernate-core-6-4-9-final-sources-jar/org/hibernate/transform/package-info.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/query/derived/AnonymousTupleBasicEntityIdentifierMapping.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/mutation/spi/AbstractMutationHandler.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/domain/AbstractSqmQualifiedJoin.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/from/TableGroupJoin.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sql/spi/NativeNonSelectQueryDefinition.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/results/graph/collection/internal/SetInitializer.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/cte/CteContainer.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/expression/UnaryOperation.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/metamodel/mapping/internal/PluralAttributeMappingImpl.java
- *
- /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sql/internal/NativeNonSelectQueryPlanImpl.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/exec/ExecutionException.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperationQueryDelete.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/jdbc/ObjectJdbcType.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmCorrelatedRoot.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/model/domain/MapPersistentAttribute.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/ast/tree/predicate/AbstractPredicate.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/results/FetchBuilder.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/query/sqm/mutation/internal/temptable/ExecuteWithTemporaryTableHelper.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/internal/AbstractEntityInstantiatorPojo.java
- *
- /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/function/array/ArrayHelper.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/package-info.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/OutputableType.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/function/FunctionRenderingSupport.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/NullType.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/sql/results/graph/embeddable/internal/NonAggregatedIdentifierMappingResult.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/sql/results/graph/entity/internal/EntityResultJoinedSubclassImpl.java
- * /hibernate-core-6-4-9-final-sources-
- jar/org/hibernate/metamodel/mapping/internal/EmbeddableMappingTypeImpl.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/SelectionQuery.java
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/sql/results/graph/DomainResultCreationState.java

*
/hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/AttributeClassification.java
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*/
// "proprietary" methods is better (this class is "proprietary" too).

Found in path(s):
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/graph/EntityGraphs.java
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Found in path(s):
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/orm_2_2.xsd
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd
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Found in path(s):
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/hibernate-mapping-3.0.dtd
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/hibernate-configuration-3.0.dtd
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*/
// public DomainResult createDomainResult(

Found in path(s):
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
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```
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 */
// "5.3 in upgrading. It will be removed in a later version."
```

Found in path(s):

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/log/DeprecationLogger.java
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```
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 */
/*
 * 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
 */
```

Found in path(s):

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/collections/ConcurrentReferenceHashMap.java
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```
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 *
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 */
/**
 * Subclass used to simply instantiation of singular attributes representing an entity's
 * version.
 */
```

Found in path(s):

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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```
/*
```

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- * THE SOFTWARE.
- */

Found in path(s):

- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/NullnessUtil.java

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```
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 *
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 */
/**
 * JTA platform implementation intended for use with WebSphere Application Server (WAS).
 *
 * 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.
 *
 * Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon
 *   <li>WAS version</li>
 *   <li>the WAS container in which Hibernate will be utilized</li>
 * </ul>
 *
 * 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
*/
```

Found in path(s):

```
* /hibernate-core-6-4-9-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
No license file was found, but licenses were detected in source scan.
```

```
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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-6-4-9-final-sources-jar/org/hibernate/dialect/Dialect.java
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```

```
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*/
```

Found in path(s):

```
* /hibernate-core-6-4-9-final-sources-
jar/org/hibernate/boot/model/source/internal/hbm/IdentifierSourceAggregatedCompositeImpl.java
* /hibernate-core-6-4-9-final-sources-
jar/org/hibernate/service/internal/SessionFactoryServiceRegistryFactoryImpl.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/spi/SessionFactoryBuilderService.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/naming/package-info.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/converter/package-info.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/java/JdbcTimeJavaType.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/property/access/internal/AbstractFieldSerialForm.java
*
```

/hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/SharedSessionCreationOptions.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/spi/EntityCopyObserverFactory.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/BlobImplementer.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/spi/PostCollectionRemoveEvent.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/engine/transaction/jta/platform/internal/ResinJtaPlatform.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/SessionFactoryBasedWrapperOptions.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/engine/transaction/jta/platform/internal/JRun4JtaPlatform.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/Synchronize.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tool/schema/spi/SchemaManagementTool.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/IndexColumn.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/profile/package-info.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/bytecode/enhance/spi/interceptor/LazyAttributeDescriptor.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/spi/MetadataContributor.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/transaction/jta/platform/spi/JtaPlatformException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/query/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/query/spi/OrdinalParameterDescriptor.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/XmlElementMetadata.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tuple/BaselineAttributeInformation.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/naming/ImplicitIndexNameSource.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/profile/Association.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/unique/AlterTableUniqueIndexDelegate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/PersistentObjectException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/env/spi/SchemaNameResolver.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/JsonHelper.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/NamedQuery.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/OnDeleteAction.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/tool/schema/extract/internal/SequenceNameExtractorImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/stat/SessionStatistics.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/jdbc/ArrayJdbcType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/Transaction.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/EntityManagerMessageLogger.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/processing/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/result/internal/ResultSetOutputImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/AbstractPropertyMapping.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jndi/internal/JndiServiceImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/property/access/internal/PropertyAccessFieldImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/usertype/EnhancedUserType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/FilterDefs.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/source/spi/PluralAttributeElementNature.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/java/SerializableJavaType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/service/spi/EventListenerGroup.java

*
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/internal/ManagedTypeHelper.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/Target.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/unique/SkipNullableUniqueDelegate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/BagType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/FormulaImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/SharedSessionBuilder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jdbc/AbstractReturningWork.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/collection/spi/package-info.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/transform/ToListResultTransformer.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/NonUniqueObjectException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/naming/ObjectNameNormalizer.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/spi/DirtyCheckEvent.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tool/schema/spi/Exporter.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/service/spi/Stopable.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/persister/entity/UnionSubclassEntityPersister.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/format/jackson/JacksonJsonFormatMapper.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/GenericGenerators.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/bytecode/enhance/spi/LazyPropertyInitializer.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/MyISAMStorageEngine.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tool/schema/internal/SchemaManagementToolInitiator.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/relational/Exportable.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/unique/UniqueDelegate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/service/spi/EventListenerRegistry.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/DuplicateMappingException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/spi/MergeContext.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/hint/QueryHintHandler.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/mapping/TypeDef.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/jdbc/IntegerJdbcType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/mapping/SimpleValue.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/annotations/SQLJoinTableRestriction.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/archive/spi/ArchiveEntry.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/transaction/jta/platform/internal/JBossStandAloneJtaPlatform.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/identity/Oracle12cIdentityColumnSupport.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tuple/component/AbstractCompositionAttribute.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/internal/DefaultAutoFlushEventListener.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/internal/util/LogHelper.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/format/FormatMapper.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/jdbc/env/spi/IdentifierHelperBuilder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/SourceType.java
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* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/java/EnumJavaType.java
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 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/stat/internal/CollectionStatisticsImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/sequence/H2V2SequenceSupport.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/xml/XsdException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/InvalidMappingException.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/exception/spi/AbstractSQLExceptionConversionDelegate.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/SimpleValueTypeInfo.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/query/sqm/produce/function/FunctionArgumentException.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/jaxb/internal/stax/FilteringXMLEventReader.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/pagination/TopLimitHandler.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/java/CurrencyJavaType.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/naming/NamingHelper.java
 * /hibernate-core-6-4-9-final-sources-
 jar/org/hibernate/boot/model/source/internal/hbm/AbstractPluralAssociationElementSourceImpl.java
 *
 /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/registry/internal/StandardServiceRegistryImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/MetadataBuilder.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/type/descriptor/sql/internal/DdlTypeImpl.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/spi/AbstractEvent.java
 * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/exception/internal/SQLStateConversionDelegate.java

```

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/event/spi/AbstractPreDatabaseOperationEvent.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/engine/config/internal/ConfigurationServiceImpl.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/registry/internal/package-info.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/internal/util/collections/ArrayHelper.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/DB2Dialect.java
*
/hibernate-core-6-4-9-final-sources-jar/org/hibernate/boot/model/relational/AuxiliaryDatabaseObject.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/boot/spi/ProviderChecker.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/unique/CreateTableUniqueDelegate.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/pagination/LegacyOracleLimitHandler.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/tuple/CreationTimestampGeneration.java
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```

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-->

Found in path(s):

```

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/persistence_3_1.xsd
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/orm_3_0.xsd
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/persistence_3_0.xsd
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```

/*

```

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*/
// It supports a proprietary operator

```

Found in path(s):

```

* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/MySQLSqlAstTranslator.java
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
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```

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- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/orm_2_0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/persistence_2_0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/hibernate-configuration-4.0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/xsd/cfg/legacy-configuration-4.0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/xsd/mapping/legacy-mapping-4.0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/hibernate-mapping-4.0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/orm_1_0.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/orm_2_1.xsd
- * /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/persistence_1_0.xsd
- *
- /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/persistence_2_1.xsd

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- * /hibernate-core-6-4-9-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider

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*/
/**
* Used to pass a CDI {@link jakarta.enterprise.inject.spi.BeanManager} to
* Hibernate.
* <p>
* According to the JPA specification, the {@code BeanManager} should be
* passed at boot time and be ready for immediate use at that time. But
* not all environments can do this (WildFly, for example). To accommodate
* such environments, Hibernate provides two options:
* 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-6-4-9-final-sources-jar/org/hibernate/cfg/ManagedBeanSettings.java
```

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```
* /hibernate-core-6-4-9-final-sources-jar/org/hibernate/jpa/orm_3_1.xsd
```

1.323 spring-web 6.1.10

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- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/HttpMessageReader.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JdkClientHttpConnector.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/reactive/HiddenHttpMethodFilter.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/HttpRequestHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/HtmlUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/CookieValue.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/method/support/CompositeUriComponentsContributor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/HttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/FileStorage.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestWebFilter.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/HttpMessageWriter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/RequestCallback.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/WriteResultPublisher.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MultipartFile.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/WebBindingInitializer.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/method/annotation/RequestHeaderMethodArgumentResolver.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/method/annotation/ExceptionHandlerMethodResolver.java


```

* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestPart.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/FormHttpMessageWriter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/HttpHandlerDecoratorFactory.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/WebApplicationInitializer.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/UndertowHeadersAdapter.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java
*
/spring-web-6-1-10-sources-
jar/org/springframework/http/converter/protobuf/ProtobufJsonFormatHttpMessageConverter.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriComponents.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/MediaTypeFactory.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ServerSentEvent.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MultipartResolver.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/AbstractListenerServerHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/SpringServletContainerInitializer.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/filter/FormContentFilter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/FilePart.java
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* /spring-web-6-1-10-sources-jar/org/springframework/http/server/ServerHttpResponse.java

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* /spring-web-6-1-10-sources-jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java
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```
* /spring-web-6-1-10-sources-
jar/org/springframework/http/server/reactive/observation/ServerHttpObservationDocumentation.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/PartEventHttpMessageWriter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/DecoderHttpMessageReader.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/bind/UnsatisfiedServletRequestParameterException.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/CodecConfigurer.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MissingRequestCookieException.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/support/DefaultClientCodecConfigurer.java
```

- * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/ModelMethodProcessor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageWriter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/RequestParamArgumentResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/accept/ContentNegotiationManager.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/observation/ServerRequestObservationContext.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MissingRequestHeaderException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/MethodNotAllowedException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/CodecConfigurerRuntimeHints.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/GenericFilterBean.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ServerCodecConfigurer.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/observation/ClientRequestObservationConvention.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ServerHttpResponseDecorator.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/adapters/AbstractReactiveWebInitializer.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/KotlinSerializationBinaryDecoder.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/FilePartEvent.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/MultipartUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/CaptureTheRestPathElement.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/HttpMethodArgumentResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/ExtractingResponseErrorHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/KotlinSerializationJsonHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/ServerWebInputException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/PathVariableArgumentResolver.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/client/support/HttpRequestWrapper.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/ServletRequestBindingException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/PartHttpMessageWriter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/KotlinSerializationBinaryHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/UnsatisfiedRequestParamException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborEncoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonDecoder.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ClientHttpResponseDecorator.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/DefaultResponseErrorHandler.java

- * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/MapMethodProcessor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/annotation/PutExchange.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/ModelAttribute.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/HttpMediaTypeException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/jsf/FacesContextUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/protobuf/ProtobufCodecSupport.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/DefaultSslInfo.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/support/BaseDefaultCodecs.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/server/handler/ResponseStatusExceptionHandler.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/CookieValueArgumentResolver.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/multipart/support/MissingServletRequestPartException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/annotation/GetExchange.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/server/reactive/observation/ServerRequestObservationConvention.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/RequestPath.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/session/WebSessionIdResolver.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MissingMatrixVariableException.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/converter/support/AllEncompassingFormHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ClientCodecConfigurer.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/Jackson2SmileEncoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/Jackson2ObjectMapperFactoryBean.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/OncePerRequestFilter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/ServletServerHttpResponse.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MissingRequestValueException.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorNetty2HttpHandlerAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufEncoder.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/server/observation/ServerRequestObservationConvention.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/support/BaseCodecConfigurer.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/RequestEntity.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/ContextCleanupListener.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/NotAcceptableStatusException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/Jackson2SmileDecoder.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/converter/smile/MappingJackson2SmileHttpMessageConverter.java
- *

```

/spring-web-6-1-10-sources-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/converter/KotlinSerializationStringHttpMessageConverter.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/StandardServletEnvironment.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/service/annotation/HttpExchangeReflectiveProcessor.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/KotlinSerializationBinaryEncoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/RequestContextListener.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/UrlArgumentResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/WebApplicationContextUtils.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/HttpMimeTypesRuntimeHints.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/SeparatorPathElement.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/support/ServerDefaultCodecsImpl.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/service/invoker/RequestAttributeArgumentResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/PathPatternRouteMatcher.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/FormPartEvent.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/CookieGenerator.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufDecoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/CaptureVariablePathElement.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/converter/cbor/KotlinSerializationCborHttpMessageConverter.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/client/IntrospectingClientHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/session/WebSessionStore.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/EncoderHttpMessageWriter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/PartEvent.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborDecoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/service/annotation/PostExchange.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/support/RestGatewaySupport.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/RequestHeaderArgumentResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java
*
/spring-web-6-1-10-sources-
jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/bind/annotation/ExceptionHandlerReflectiveProcessor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/ServerErrorException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/JavaScriptUtils.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/MissingRequestValueException.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JdkHttpClientResourceFactory.java

```

```

* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/UndertowHttpHandlerAdapter.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/service/annotation/PatchExchange.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/PathElement.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ServerHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/service/annotation/DeleteExchange.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/ExceptionHandler.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/MultipartWriterSupport.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/method/support/HandlerMethodReturnValueHandlerComposite.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/server/observation/ServerHttpObservationDocumentation.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/filter/RelativeRedirectFilter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/support/ClientDefaultCodecsImpl.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/method/HandlerTypePredicate.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/ErrorResponseException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/HttpServiceArgumentResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/converter/protobuf/KotlinSerializationProtobufHttpMessageConverter.java
No license file was found, but licenses were detected in source scan.

```

```

/*
 * Copyright 2002-2023 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * 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.
 */

/**
 * 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.
 */

```

Found in path(s):

* /spring-web-6-1-10-sources-jar/org/springframework/web/server/ServerWebExchange.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 cdmioq
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/smp336m
# 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 cdbcmg
# 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.unsigned 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 dpgraph
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
application/vnd.fujitsu.oasysprs bh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd
#
application/vnd.fujixerox.docuworks.container
# application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
# application/vnd.geo+json
# application/vnd.geocube+xml
application/vnd.geogebra.file ggb
application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
# application/vnd.gerber
# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response

```

application/vnd.gmx gmx
application/vnd.google-earth.kml+xml kml
application/vnd.google-earth.kmz kmz
application/vnd.gov.sk.e-form+xml
application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqf gqs
application/vnd.gridmp
application/vnd.groove-account gac
application/vnd.groove-help ghf
application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg

application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbci
application/vnd.hcl-bireports
application/vnd.hdt
application/vnd.heroku+json
application/vnd.hhe.lesson-player les
application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlyt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
application/vnd.httpphone
application/vnd.hydrostatix.sof-data sfd-hdstx
application/vnd.hyperdrive+json
application/vnd.hzn-3d-crossword
application/vnd.ibm.afplinedata
application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.ibm.secure-container sc
application/vnd.iccprofile icc
icm
application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
application/vnd.ims.imsccv1p1
application/vnd.ims.imsccv1p2

```

# application/vnd.ims.imscv1p3
# application/vnd.ims.lis.v2.result+json
# application/vnd.ims.lti.v2.toolconsumerprofile+json
# application/vnd.ims.lti.v2.toolproxy+json
# application/vnd.ims.lti.v2.toolproxy.id+json
# application/vnd.ims.lti.v2.toolsettings+json
# application/vnd.ims.lti.v2.toolsettings.simple+json
# application/vnd.informedcontrol.rms+xml
# application/vnd.informix-visionary
# application/vnd.infotech.project
# application/vnd.infotech.project+xml
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm  igm
application/vnd.intercon.formnet  xpw xpx
application/vnd.intergeo  i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo  qbo
application/vnd.intu.qfx  qfx
#
  application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
# application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmesssage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile  rcprofile
application/vnd.irepository.package+xml  irp
application/vnd.is-xpr  xpr
application/vnd.isac.fcs  fcs
application/vnd.jam  jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms  rms
application/vnd.jisp  jisp
application/vnd.joost.joda-archive  joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz  ktz
  ktr
application/vnd.kde.karbon  karbon
application/vnd.kde.kchart  chrt

```

application/vnd.kde.kformula kfo
application/vnd.kde.kivio flw
application/vnd.kde.kontour kon
application/vnd.kde.kpresenter kpr kpt
application/vnd.kde.kspread ksp
application/vnd.kde.kword kwd kwt
application/vnd.kenameaapp htke
application/vnd.kidspiration kia
application/vnd.kinar kne knp
application/vnd.koan skp skd skt skm
application/vnd.kodak-descriptor sse
application/vnd.las.las+xml lasxml
application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3 123
application/vnd.lotus-approach apr
application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
application/vnd.lotus-organizer org
application/vnd.lotus-screencam scm
application/vnd.lotus-wordpro lwp
application/vnd.macports.portpkg portpkg
application/vnd.mapbox-vector-tile
application/vnd.marlin.drm.actiontoken+xml

application/vnd.marlin.drm.conftoken+xml
application/vnd.marlin.drm.license+xml
application/vnd.marlin.drm.mdcf
application/vnd.mason+json
application/vnd.maxmind.maxmind-db
application/vnd.mcd mcd
application/vnd.medcalldata mc1
application/vnd.mediastation.cdkey cdkey
application/vnd.meridian-slideshow
application/vnd.mfer mwf
application/vnd.mfmp mfm
application/vnd.micro+json
application/vnd.micrografx.flo flo
application/vnd.micrografx.igx igx
application/vnd.microsoft.portable-executable
application/vnd.miele+json
application/vnd.mif mif
application/vnd.minisoft-hp3000-save
application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf daf
application/vnd.mobius.dis dis
application/vnd.mobius.mbk mbk

```

application/vnd.mobius.mqy  mqy
application/vnd.mobius.msl  msl
application/vnd.mobius.plc  plc
application/vnd.mobius.txf  txf
application/vnd.mophun.application  mpn
application/vnd.mophun.certificate  mpc
#
  application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adsi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml  xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry  cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed  cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel  xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12  xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12  xlsb
application/vnd.ms-excel.sheet.macroenabled.12  xlsx
application/vnd.ms-excel.template.macroenabled.12  xltm
application/vnd.ms-fontobject  eot
application/vnd.ms-htmlhelp  chm
application/vnd.ms-ims  ims
application/vnd.ms-lrm  lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme  thmx
#
  application/vnd.ms-opentype
# application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat  cat
application/vnd.ms-pki.stl  stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint  ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12  ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12  pptm
application/vnd.ms-powerpoint.slide.macroenabled.12  sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12  ppsm
application/vnd.ms-powerpoint.template.macroenabled.12  potm
# application/vnd.ms-printdevicecapabilities+xml
# application/vnd.ms-printing.printticket+xml
# application/vnd.ms-printschematicket+xml
application/vnd.ms-project  mpp mpt

```

```

# application/vnd.ms-tnef
# application/vnd.ms-windows.devicepairing
# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
#
  application/vnd.ms-wmdrm.meter-chlg-req
# application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
# application/vnd.msa-disk-image
application/vnd.mseq mseq
# application/vnd.msign
# application/vnd.multiad.creator
# application/vnd.multiad.creator.cif
# application/vnd.music-niff
application/vnd.musician mus
application/vnd.muvee.style msty
application/vnd.mynfc taglet
# application/vnd.ncd.control
# application/vnd.ncd.reference
# application/vnd.nervana
# application/vnd.netfpx
application/vnd.neurolanguage.nlu nlu
# application/vnd.nintendo.nitro.rom
# application/vnd.nintendo.snes.rom
application/vnd.nitf ntf nitf
application/vnd.noblenet-directory nnd
application/vnd.noblenet-sealer nns
application/vnd.noblenet-web nnw
# application/vnd.nokia.catalogs
#
  application/vnd.nokia.conml+wbxml
# application/vnd.nokia.conml+xml
# application/vnd.nokia.ip.tv.config+xml
# application/vnd.nokia.isds-radio-presets
# application/vnd.nokia.landmark+wbxml
# application/vnd.nokia.landmark+xml
# application/vnd.nokia.landmarkcollection+xml
# application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
# application/vnd.nokia.ncd

```



```

# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-preset rpst
application/vnd.nokia.radio-presets rpss
application/vnd.novadigm.edm edm
application/vnd.novadigm.edx edx
application/vnd.novadigm.ext ext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database odb
application/vnd.oasis.opendocument.formula odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet ods
application/vnd.oasis.opendocument.spreadsheet-template ots
application/vnd.oasis.opendocument.text odt
application/vnd.oasis.opendocument.text-master odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web oth
#
application/vnd.obn
# application/vnd.oftn.l10n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
#
application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response

```

```

# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
#
application/vnd.oma.cab-feature-handler+xml
# application/vnd.oma.cab-pcc+xml
# application/vnd.oma.cab-subs-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.oma.dd2+xml dd2
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
# application/vnd.oma.lwm2m+tlv
# application/vnd.oma.pal+xml
# application/vnd.oma.poc.detailed-progress-report+xml
# application/vnd.oma.poc.final-report+xml
# application/vnd.oma.poc.groups+xml
# application/vnd.oma.poc.invocation-descriptor+xml
# application/vnd.oma.poc.optimized-progress-report+xml
# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
# application/vnd.omads-email+xml
# application/vnd.omads-file+xml
# application/vnd.omads-folder+xml
# application/vnd.omaloc-supl-init
# application/vnd.onepager
# application/vnd.openblox.game+xml
#
application/vnd.openblox.game-binary
# application/vnd.openeye.oeb
application/vnd.openofficeorg.extension oxt
# application/vnd.openxmlformats-officedocument.custom-properties+xml
# application/vnd.openxmlformats-officedocument.customxmlproperties+xml
# application/vnd.openxmlformats-officedocument.drawing+xml

```

```

# application/vnd.openxmlformats-officedocument.drawingml.chart+xml
# application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramcolors+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramstyle+xml
# application/vnd.openxmlformats-officedocument.extended-properties+xml
# application/vnd.openxmlformats-officedocument.presentationml.commentauthors+xml
# application/vnd.openxmlformats-officedocument.presentationml.comments+xml
# application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
#
application/vnd.openxmlformats-officedocument.presentationml.notesmaster+xml
# application/vnd.openxmlformats-officedocument.presentationml.notesslide+xml
application/vnd.openxmlformats-officedocument.presentationml.presentation pptx
# application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slide sldx
# application/vnd.openxmlformats-officedocument.presentationml.slide+xml
# application/vnd.openxmlformats-officedocument.presentationml.slidelayout+xml
# application/vnd.openxmlformats-officedocument.presentationml.slidemaster+xml
application/vnd.openxmlformats-officedocument.presentationml.slideshow ppsx
# application/vnd.openxmlformats-officedocument.presentationml.slideshow.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml
#
application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
# application/vnd.openxmlformats-officedocument.presentationml.tags+xml
application/vnd.openxmlformats-officedocument.presentationml.template potx
# application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.calcchain+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.dialogsheet+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.externallink+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcachedefinition+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcacherecords+xml
#
application/vnd.openxmlformats-officedocument.spreadsheetml.pivottable+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.querytable+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.revisionheaders+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.revisionlog+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sharedstrings+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.xlsx
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.main+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.table+xml

```

```

# application/vnd.openxmlformats-officedocument.spreadsheetml.tablesinglecells+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx
# application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml
#
application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml
# application/vnd.openxmlformats-officedocument.theme+xml
# application/vnd.openxmlformats-officedocument.themeoverride+xml
# application/vnd.openxmlformats-officedocument.vmldrawing
# application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
# application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
#
application/vnd.openxmlformats-officedocument.wordprocessingml.footnotes+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
# application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
# application/vnd.openxmlformats-package.core-properties+xml
# application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
# application/vnd.openxmlformats-package.relationships+xml
# application/vnd.oracle.resource+json
# application/vnd.orange.indata
# application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package mgp
# application/vnd.osgi.bundle
application/vnd.osgi.dp dp
application/vnd.osgi.subsystem esa
#
application/vnd.otp.ct-kip+xml
# application/vnd.oxli.countgraph
# application/vnd.pagerduty+json
application/vnd.palm pdb pqa oprc
# application/vnd.panoply
# application/vnd.paos.xml
application/vnd.pawaafile paw
# application/vnd.pcos
application/vnd.pg.format str
application/vnd.pg.osasli ei6
# application/vnd.piacess.application-licence
application/vnd.picsel efif

```

```

application/vnd.pmi.widget wg
# application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn plf
application/vnd.powerbuilder6 pbd
# application/vnd.powerbuilder6-s
# application/vnd.powerbuilder7
# application/vnd.powerbuilder7-s
# application/vnd.powerbuilder75
# application/vnd.powerbuilder75-s
# application/vnd.preminet
application/vnd.previewsystems.box box
application/vnd.proteus.magazine mgz
application/vnd.publishare-delta-tree qps
application/vnd.pvi.ptid1 ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xml-print+xml
# application/vnd.qualcomm.brew-app-res
#
application/vnd.quarantainenet
application/vnd.quark.quarkxpress qxd qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
# application/vnd.radisys.msml-conf+xml
# application/vnd.radisys.msml-dialog+xml
# application/vnd.radisys.msml-dialog-base+xml
# application/vnd.radisys.msml-dialog-fax-detect+xml
# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed bed
application/vnd.recordare.musicxml mxl
application/vnd.recordare.musicxml+xml musicxml
#
application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote cryptonote
application/vnd.rim.cod cod
application/vnd.rm-realmedia rm
application/vnd.rm-realmedia-vbr rmvb

```

application/vnd.route66.link66+xml link66
application/vnd.rs-274x
application/vnd.ruckus.download
application/vnd.s3sms
application/vnd.sailingtracker.track st
application/vnd.sbm.cid
application/vnd.sbm.mid2
application/vnd.scribus
application/vnd.sealed.3df
application/vnd.sealed.csf
application/vnd.sealed.doc
application/vnd.sealed.eml
application/vnd.sealed.mht
application/vnd.sealed.net
application/vnd.sealed.ppt
application/vnd.sealed.tiff
application/vnd.sealed.xls
application/vnd.sealedmedia.softseal.html
application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail see
application/vnd.sema sema
application/vnd.semd semd
application/vnd.semf semf
application/vnd.shana.informed.formdata ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package ipk
application/vnd.simtech-mindmapper twd
twds
application/vnd.siren+json
application/vnd.smaf mmf
application/vnd.smart.notebook
application/vnd.smart.teacher teacher
application/vnd.software602.filler.form+xml
application/vnd.software602.filler.form+xml-zip
application/vnd.solent.sdkm+xml sdkm sdkd
application/vnd.spotfire.dxp dxp
application/vnd.spotfire.sfs sfs
application/vnd.sss-cod
application/vnd.sss-dtf
application/vnd.sss-ntf
application/vnd.stardivision.calc sdc
application/vnd.stardivision.draw sda
application/vnd.stardivision.impress sdd
application/vnd.stardivision.math smf
application/vnd.stardivision.writer sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package smzip

application/vnd.stepmania.stepchart sm
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-rtcpvr
 # application/watcherinfo+xml
 # application/whoispp-query
 # application/whoispp-response
 application/widget wgt
 application/winhelp 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
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
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
application/x-latex latex
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-msterial trm
application/x-mswrite wri
application/x-netcdf nc cdf
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
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3
application/x-tads gam
application/x-tar tar
application/x-tcl tcl
application/x-tex tex
application/x-tex-tfm tfm
application/x-texinfo texinfo
texi
application/x-tgif obj
application/x-ustar ustar
application/x-wais-source src
application/x-www-form-urlencoded
application/x-x509-ca-cert der crt

application/x-xfig fig
application/x-xfiff+xml xlf
application/x-xpinstall xpi
application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
application/xcap-att+xml
application/xcap-caps+xml
application/xcap-diff+xml xdf
application/xcap-el+xml
application/xcap-error+xml
application/xcap-ns+xml
application/xcon-conference-info+xml
application/xcon-conference-info-diff+xml
application/xenc+xml xenc
application/xhtml+xml xhtml
xht
application/xhtml-voice+xml
application/xml xml xsl
application/xml-dtd dtd
application/xml-external-parsed-entity
application/xml-patch+xml
application/xmpp+xml
application/xop+xml xop
application/xproc+xml xpl
application/xslt+xml xslt
application/xspf+xml xspf
application/xv+xml mxml xhvm xvm xvm
application/yang yang
application/yin+xml yin
application/zip zip
application/zlib
audio/1d-interleaved-parityfec
audio/32kadpcm
audio/3gpp
audio/3gpp2
audio/ac3
audio/adpcm adp
audio/amr
audio/amr-wb
audio/amr-wb+
audio/aptx
audio/asc
audio/atrac-advanced-lossless
audio/atrac-x
audio/atrac3

audio/basic au snd
audio/bv16
audio/bv32
audio/clearmode
audio/cn
audio/dat12
audio/dls
audio/dsr-es201108
audio/dsr-es202050
audio/dsr-es202211
audio/dsr-es202212
audio/dv
audio/dvi4
audio/eac3
audio/encaprtsp
audio/evrc
audio/evrc-qcp
audio/evrc0
audio/evrc1

 audio/evrcb
audio/evrcb0
audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0
audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221
audio/g723
audio/g726-16
audio/g726-24
audio/g726-32
audio/g726-40
audio/g728
audio/g729
audio/g7291
audio/g729d
audio/g729e
audio/gsm
audio/gsm-efr

audio/gsm-hr-08
audio/ilbc
audio/ip-mr_v2.5
audio/isac
audio/l16
audio/l20
audio/l24
audio/l8
audio/lpc
audio/midi mid midi kar rmi
audio/mobile-xmf
audio/mp4 m4a mp4a
audio/mp4a-latm
audio/mpa
audio/mpa-robust
audio/mpeg mpga mp2 mp2a mp3 m2a m3a
audio/mpeg4-generic
audio/musepack
audio/ogg oga ogg spx
audio/opus
audio/parityfec
audio/pcma
audio/pcma-wb
audio/pcmu
audio/pcmu-wb
audio/prs.sid
audio/qcelp
audio/raptorfec
audio/red
audio/rtp-enc-aescm128
audio/rtp-midi
audio/rtploopback
audio/rtx
audio/s3m s3m
audio/silk sil

audio/smv
audio/smv-qcp
audio/smv0
audio/sp-midi
audio/speex
audio/t140c
audio/t38
audio/telephone-event
audio/tone
audio/uemclip
audio/ulpfec
audio/vdvi

```

# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audio    uva uvva
audio/vnd.digital-winds  eol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra    dra
audio/vnd.dts    dts
audio/vnd.dts.hd  dtshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voice  lvp
audio/vnd.ms-playready.media.pya  pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800  ecelp4800
audio/vnd.nuera.ecelp7470  ecelp7470
audio/vnd.nuera.ecelp9600  ecelp9600
#
audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip    rip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webm    weba
audio/x-aac    aac
audio/x-aiff    aif aiff aifc
audio/x-caf    caf
audio/x-flac    flac
audio/x-matroska  mka

```

audio/x-mpegurl m3u
audio/x-ms-wax wax
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
image/vnd.radiance
image/vnd.sealed.png
image/vnd.sealedmedia.softseal.gif
image/vnd.sealedmedia.softseal.jpg
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/encaprtpt
# 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
text/vnd.curl.mcurl mcurl
text/vnd.curl.scurl scurl
text/vnd.debian.copyright
text/vnd.dmclientscript
text/vnd.dvb.subtitle sub
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.iprtc.newsml
text/vnd.iprtc.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/encaprtsp

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/smp292m
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
video/vnd.directv.mpeg
video/vnd.directv.mpeg-tts
video/vnd.dlna.mpeg-tts
video/vnd.dvb.file dvb
video/vnd.fvt fvt
video/vnd.hns.video
video/vnd.iptvforum.1dparityfec-1010

video/vnd.iptvforum.1dparityfec-2005
video/vnd.iptvforum.2dparityfec-1010
video/vnd.iptvforum.2dparityfec-2005
video/vnd.iptvforum.ttsavc
video/vnd.iptvforum.ttsmpeg2
video/vnd.motorola.video
video/vnd.motorola.videop
video/vnd.mpegurl mxu m4u
video/vnd.ms-playready.media.pyv pyv
video/vnd.nokia.interleaved-multimedia
video/vnd.nokia.videovoip
video/vnd.objectvideo
video/vnd.radgamettools.bink
video/vnd.radgamettools.smacker
video/vnd.sealed.mpeg1
video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
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-6-1-10-sources-jar/org/springframework/http/mime.types

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* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/Mapping.java

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Found in path(s):

* /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriBuilderFactory.java

* /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestClientException.java

```

* /spring-web-6-1-10-sources-
jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/accept/PathExtensionContentNegotiationStrategy.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/WebRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/support/StandardServletPartUtils.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ResourceHttpMessageReader.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/method/annotation/RequestParamMapMethodArgumentResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/filter/CorsFilter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/DefaultRequestPath.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/AbstractJsonHttpMessageConverter.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/client/AbstractClientHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/DelegatingServerHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/session/DefaultWebSessionManager.java
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Found in path(s):

```

* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextResourceLoader.java
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- */

Found in path(s):

- * /spring-web-6-1-10-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/CorsUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/LiteralPathElement.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/WebDataBinder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/FormHttpMessageReader.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/support/RestTemplateAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/ClientHttpRequestInterceptor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/FacesRequestAttributes.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/observation/ServerRequestObservationContext.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/BufferingClientHttpRequestWrapper.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonXmlMixin.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/ErrorResponse.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/converter/FormHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/GsonHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/CacheControl.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/StatusHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/ReadOnlyHttpHeaders.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/accept/MappingMediaTypeFileExtensionResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/adapter/DefaultServerWebExchange.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/AbstractGenericHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/MethodArgumentTypeMismatchException.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestMethod.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpCookie.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriBuilder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java

- * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpStatus.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageWriter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/support/JettyHeadersAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/TagUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestClientUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/ContextLoader.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/ReactorHttpExchangeAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/HttpRequestValues.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/adapter/WebHttpHandlerBuilder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/NestedServletException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/JsonbHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/SingleCharWildcardedPathElement.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/KotlinSerializationSupport.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/RequestContextHolder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/EscapedErrors.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/server/ServerWebExchangeDecorator.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/HttpClientAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/PatternParseException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/ServletRequestDataBinder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/JettyClientHttpResponse.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/xml/XmlEventDecoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/MethodArgumentConversionNotSupportedException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ServletServerHttpRequest.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/AbstractJackson2Decoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ServletHttpHandlerAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/Jackson2CodecSupport.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/ResponseEntity.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/UriBuilderFactoryArgumentResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/BindErrorUtils.java

- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JettyResourceFactory.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ClientHttpResponse.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/Jackson2JsonEncoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/CoWebFilter.kt
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/GsonBuilderUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/support/Netty4HeadersAdapter.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/i18n/AcceptHeaderLocaleContextResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpResponse.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/service/annotation/HttpExchangeBeanRegistrationAotProcessor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/Jackson2Tokenizer.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/ClientHttpResponseDecorator.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/OkHttp3ClientHttpRequest.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/http/server/observation/DefaultServerRequestObservationConvention.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/BindParamNameResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/CorsUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpRequest.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/accept/AbstractMappingContentNegotiationStrategy.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/PartGenerator.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestClient.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/DefaultCorsProcessor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/TomcatHeadersAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/ForwardedHeaderUtils.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/method/ControllerAdviceBean.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/RequestPartArgumentResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/JettyClientHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/ObjectToStringHttpMessageConverter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonMixin.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/ResponseStatus.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorResourceFactory.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/HttpServiceProxyFactoryExtensions.kt
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextResource.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/WebExchangeBindException.java

- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/UnsupportedMediaTypeStatusException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/AbstractStreamingClientHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/WebUtils.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/xml/Jaxb2Helper.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/WebExchangeDataBinder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/support/HttpComponentsHeadersAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/ResourceHttpMessageWriter.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/DefaultPartHttpMessageReader.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/BufferingClientHttpResponseWrapper.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/HttpExchangeAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlDecoder.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpMethod.java
- * /spring-web-6-1-10-sources-
- jar/org/springframework/web/context/request/async/DeferredResultInterceptorChain.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/TomcatHandlerAdapter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpStatusCode.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/handler/ExceptionHandlerWebHandler.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/ReactiveHttpRequestValues.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/UnknownContentTypeException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorUriHelper.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/support/HttpAccessor.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/client/HttpServerErrorException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/ServerWebExchangeExtensions.kt
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorNetty2ServerHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/JettyClientHttpRequestFactory.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/support/MultipartFilter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MultipartFileResource.java
- *
- /spring-web-6-1-10-sources-
- jar/org/springframework/web/service/invoker/AbstractNamedValueArgumentResolver.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/DefaultPartEvents.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/DefaultParts.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpHeaders.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MissingServletRequestParameterException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/MultipartParser.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/OkHttp3ClientHttpRequestFactory.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JettyClientHttpRequest.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/SimpleClientHttpResponse.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpRequest.java

* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/AbstractReactorHttpExchangeAdapter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/observation/ClientHttpObservationDocumentation.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/UrlPathHelper.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/BindParam.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/ContextLoaderListener.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/RequestBodyArgumentResolver.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/http/client/AbstractClientHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/MultipartBodyBuilder.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/DelegatingFilterProxy.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoke/HttpServiceProxyFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/PathContainer.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/server/adapt/ForwardedHeaderTransformer.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/http/HttpEntity.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/MissingPathVariableException.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/ServletRequestPathFilter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/OpaqueUriComponents.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/OkHttp3ClientHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/ShallowEtagHeaderFilter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/WebDataBinderFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/reactive/ServerWebExchangeContextFilter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/PathPatternParser.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpRange.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/HttpComponentsClientHttpConnector.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/SimpleClientHttpRequest.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JettyClientHttpConnector.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/observation/DefaultServerRequestObservationConvention.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/ServletServerHttpAsyncRequestControl.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/DefaultCorsProcessor.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/StreamingHttpOutputMessage.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/WildcardPathElement.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpConnector.java

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* /spring-web-6-1-10-sources-jar/org/springframework/web/util/ServletRequestPathUtils.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/AbstractJackson2Encoder.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/DefaultPathContainer.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/MediaType.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/session/HeaderWebSessionIdResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/DefaultErrorResponseBuilder.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/client/OutputStreamPublisher.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/HttpComponentsClientHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/ProblemDetail.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/ClientHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestClientExtensions.kt
* /spring-web-6-1-10-sources-
jar/org/springframework/http/converter/AbstractKotlinSerializationHttpMessageConverter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/ContentDisposition.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/session/CookieWebSessionIdResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/support/Netty5HeadersAdapter.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
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* /spring-web-6-1-10-sources-
jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/method/annotation/HandlerMethodValidationException.java

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*
 /spring-web-6-1-10-sources-jar/org/springframework/web/service/annotation/HttpExchange.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestOperations.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/observation/DefaultClientRequestObservationConvention.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/observation/ClientRequestObservationContext.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/ReactorNettyClientRequestFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestTemplate.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/PostMapping.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/http/ResponseCookie.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/ReactorNettyClientResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/service/invoker/HttpServiceMethod.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/ResourceHttpMessageConverter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequestFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestMapping.java
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 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ResourceFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/async/CallableInterceptorChain.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/xml/SourceHttpMessageConverter.java
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 /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorNetty2ServerHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/CrossOrigin.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/ModelFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JdkClientHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/RequestHandledEvent.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/CorsConfiguration.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlEncoder.java
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 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/ContentCachingRequestWrapper.java
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 * /spring-web-6-1-10-sources-jar/org/springframework/web/accept/HeaderContentNegotiationStrategy.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/DefaultRestClient.java
 * /spring-web-6-1-10-sources-

jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
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 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/reactive/ServerHttpObservationFilter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/HandlerMethodValidator.java
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 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/async/DeferredResult.java
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 /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/PatchMapping.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/JacksonModulesRuntimeHints.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/HierarchicalUriComponents.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/async/WebAsyncManager.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/server/adapter/HttpWebHandlerAdapter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestClientResponseException.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/ForwardedHeaderFilter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/ContentCachingResponseWrapper.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JdkClientHttpRequest.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/KotlinSerializationStringDecoder.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/web/client/NoOpResponseErrorHandler.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/PartEventHttpMessageReader.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpResponse.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/AbstractHttpMessageConverter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/support/InvocableHandlerMethod.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/ServletServerHttpRequest.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/ProblemDetailRuntimeHints.java
 * /spring-web-6-1-10-sources-
 jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/DefaultRestClientBuilder.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/async/WebAsyncTask.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriTemplate.java
 * /spring-web-6-1-10-sources-
 jar/org/springframework/http/client/reactive/HttpComponentsClientHttpResponse.java
 * /spring-web-6-1-10-sources-
 jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
 * /spring-web-6-1-10-sources-
 jar/org/springframework/web/context/request/async/AsyncRequestNotUsableException.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonEncoder.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java


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* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/DeleteMapping.java
* /spring-web-6-1-10-sources-
jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/client/support/RestClientAdapter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/StringHttpMessageConverter.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/DisconnectedClientHelper.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriComponentsBuilder.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/JdkClientHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/WebUtilRuntimeHints.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/RegexPathElement.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletRequestHandledEvent.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/codec/KotlinSerializationStringEncoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/HtmlCharacterEntityReferences.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/DefaultHttpStatusCode.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpResponse.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/pattern/PathPattern.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/ResponseStatusException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/SessionAttributesHandler.java
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```

org.springframework.web.server.adapter.WebHttpHandlerBuilder\$SpringWebBlockHoundIntegration

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* /spring-web-6-1-10-sources-jar/org/springframework/http/MediaTypeEditor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/ResourceAccessException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
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* /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/CorsProcessor.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/FormFieldPart.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/codec/multipart/Part.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /spring-web-6-1-10-sources-

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jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/SessionAttributeStore.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MultipartException.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/support/ProxyFactoryBean.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/method/support/UriComponentsContributor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/RequestAttributes.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/WebArgumentResolver.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/bind/ServletRequestUtils.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/MappingJacksonInputMessage.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/context/request/async/TimeoutCallableProcessingInterceptor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RestController.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/NativeWebRequest.java
* /spring-web-6-1-10-sources-
jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
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 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
 *
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextPropertySource.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/client/ClientHttpRequest.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
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```

Found in path(s):

```

* /spring-web-6-1-10-sources-
jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/annotation/RequestScope.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/SessionAttribute.java
*
/spring-web-6-1-10-sources-jar/org/springframework/web/util/WebAppRootListener.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/FacesWebRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/RequestScope.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/ClientHttpRequestFactory.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/cors/CorsConfigurationSource.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/WebExceptionHandler.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/SessionScope.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/annotation/SessionScope.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/annotation/ApplicationScope.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/WebApplicationContext.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/WebHandler.java
*

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/spring-web-6-1-10-sources-jar/org/springframework/web/server/session/WebSessionManager.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/filter/CompositeFilter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/ReactiveHttpInputMessage.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/WebRequestInterceptor.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/ReactiveHttpOutputMessage.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/multipart/MultipartRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestAttribute.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/CorsConfigurationSource.java
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* /spring-web-6-1-10-sources-jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/HttpStatusCodeException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/RestOperationsExtensions.kt
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/handler/WebHandlerDecorator.java
*
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/xml/JaxbContextContainer.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/HttpClientErrorException.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/ServerHttpRequest.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
*

/spring-web-6-1-10-sources-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/ClientHttpRequestInitializer.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextScope.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
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* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestHeader.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/util/UriTemplateHandler.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/HttpLogging.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/protobuf/ProtobufHttpMessageWriter.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/client/ResponseErrorHandler.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/context/ServletConfigAware.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/HttpMessageDecoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/handler/FilteringWebHandler.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/codec/HttpMessageEncoder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/ResponseBody.java
*
/spring-web-6-1-10-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/SslInfo.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/server/DefaultServerWebExchangeBuilder.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/MatrixVariable.java
* /spring-web-6-1-10-sources-jar/org/springframework/web/accept/ParameterContentNegotiationStrategy.java

* /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/XmlWebApplicationContext.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/server/WebSession.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestBody.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/CodecConfigurerFactory.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/http/ZeroCopyHttpOutputMessage.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/ContextPathCompositeHandler.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/method/annotation/InitBinderDataBinderFactory.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpOutputMessage.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/InvalidMediaTypeException.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/CharacterEncodingFilter.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/PathVariable.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/codec/LoggingCodecSupport.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/server/reactive/HttpHandler.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/HttpInputMessage.java
 * /spring-web-6-1-10-sources-
 jar/org/springframework/web/method/annotation/ErrorsMethodArgumentResolver.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/client/ResponseExtractor.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/cors/CorsProcessor.java
 * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/HttpMessageNotReadableException.java
 * /spring-web-6-1-10-sources-
 jar/org/springframework/web/method/annotation/ExpressionValueMethodArgumentResolver.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/ServletContextAware.java
 *
 /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/RequestParam.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/HttpSessionRequiredException.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/support/GroovyWebApplicationContext.java
 * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/AbstractRequestAttributes.java
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- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/RequestContextFilter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/WebFilter.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
- *
- /spring-web-6-1-10-sources-jar/org/springframework/http/HttpMessage.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/server/WebFilterChain.java
- * /spring-web-6-1-10-sources-jar/org/springframework/http/converter/HttpMessageNotWritableException.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/util/HttpSessionMutexListener.java
- * /spring-web-6-1-10-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java

1.324 spring-web-mvc 6.1.10

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- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ContinuationHandlerMethodArgumentResolver.java

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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/WebContentGenerator.java
*
/spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/PrincipalMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/CorsRegistry.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/BeanNameViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/AsyncServerResponse.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/ViewResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
*
/spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.j
ava
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/HandlerMapping.java
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- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
- *
- /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/LocaleContextResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/ThemeTag.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/LocaleResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/RequestContextUtils.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
- *
- /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/BindStatus.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
- *
- /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/ParamAware.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/AbstractView.java

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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/ThemeResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.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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```
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/FlashMapManager.java
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/AbstractController.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/condition/AbstractNameValueExpression.java
*
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/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletResponseMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/HandlerExceptionResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/ArgumentTag.java
*
/spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/ValueFormatter.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/EvalTag.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/TransformTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/ParamTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/script/RenderingContext.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/HttpServletBean.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/TransformedResource.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/View.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /spring-webmvc-6-1-10-sources-

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jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java

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jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionHandlerResolver.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/RequestAttributeMethodArgumentResolver.java

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/spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/ParameterizableViewController.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/EncodedResourceResolver.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/OptionWriter.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/function/DefaultServerResponseBuilder.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java

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/spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/handler/AbstractHandlerMethodExceptionHandlerResolver.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/PathResourceLookupFunction.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/NoResourceFoundException.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/handler/PathPatternMatchableHandlerMapping.java

- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/MappedInterceptor.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/DefaultServerRequestBuilder.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/VersionResourceResolver.java
- *
- /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletModelAttributeMethodProcessor.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/LabelTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewMethodReturnValueHandler.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/UrlTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/xml/MarshallingView.java
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- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/OptionTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/AbstractMediaTypeExpression.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ToStringVisitor.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/AbstractServerResponse.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateView.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/RequestMethodRequestCondition.java
- *
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- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/PathPatternsRequestCondition.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java


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* /spring-webmvc-6-1-10-sources-
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/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/DispatcherServlet.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyMethodProcessor.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/FlashMap.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/PathResourceResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
* /spring-webmvc-6-1-10-sources-
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/HandlerFilterFunction.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.
java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
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/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitterReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ServerRequest.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/FrameworkServlet.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/ModelAndView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/BindTag.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ErrorHandlerServerResponse.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
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/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/SseEmitter.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/RequestContext.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/ButtonTag.java

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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceUrlEncodingFilter.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/DefaultEntityResponseBuilder.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerView.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMapMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/JstlUtils.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/ContentNegotiatingViewResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/UrlBasedViewResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/SseServerResponse.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/InputTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/MessageTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/FormTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/SelectTag.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/RedirectView.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
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Found in path(s):

- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/config/annotation/ResourceChainRegistration.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
- *
- /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/InternalResourceView.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/Param.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/HttpResource.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsView.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java
- *
- /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewResponseBodyAdvice.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceResolver.java
- * /spring-webmvc-6-1-10-sources-
- jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/JstlView.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
- *

/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/feed/AbstractRssFeedView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.java

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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/NoHandlerFoundException.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ServerResponse.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RouterFunctionDsl.kt
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RouterFunctions.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/support/HandlerFunctionAdapter.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java

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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RequestPredicates.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/HandlerInterceptor.java
* /spring-webmvc-6-1-10-sources-
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* /spring-webmvc-6-1-10-sources-
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/DefaultServerRequest.java
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/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RouterFunctionBuilder.java
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```

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/SmartView.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
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- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/HandlerExecutionChain.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ChangePathPatternParserVisitor.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/SelectedValueComparator.java
- *
- /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
- *
- /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/HandlerAdapter.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMethodArgumentResolver.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/LastModified.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RequestPredicate.java
- *
- /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/ViewResolversBeanDefinitionParser.java
- * /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/Controller.java

```

* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyAdviceChain.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/handler/SimpleMappingExceptionHandler.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/form/TagWriter.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ServerResponseExtensions.kt
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
*
/spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/EntityResponse.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java
a
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/condition/AbstractRequestCondition.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RenderingResponse.java

```

```

* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/SessionAttributeMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
*
/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/RouterFunction.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/ServerRequestExtensions.kt
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/function/HandlerFunction.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
* /spring-webmvc-6-1-10-sources-
jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.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-6-1-10-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java

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jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/VersionStrategy.java

*

/spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/tags/ArgumentAware.java

* /spring-webmvc-6-1-10-sources-

jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java

* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java

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* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
*
* /spring-webmvc-6-1-10-sources-jar/org/springframework/web/servlet/resource/ResourceTransformer.java

1.325 spring-jdbc 6.1.10

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* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
*
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
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* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/PreparedStatementSetter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/lob/LobHandler.java
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/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException 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-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
*

/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/KeyHolder.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlReturnType.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java

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- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
- *
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.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</p>: Needs to be invoked after the involved
PreparedStatement 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-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
*
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java

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* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryRuntimeHints.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/JdbcUtils.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/support/SqlCharacterValue.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/RdbmsOperation.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/StoredProcedure.java
*
/spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java
*
/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/support/SqlBinaryValue.java
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Found in path(s):

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* /spring-jdbc-6-1-10-sources-

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jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSourceExtensions.kt

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Found in path(s):

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java

* /spring-jdbc-6-1-10-sources-

jar/org/springframework/jdbc/support/incrementer/MariaDBSequenceMaxValueIncrementer.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java

*

/spring-jdbc-6-1-10-sources-

jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java

* /spring-jdbc-6-1-10-sources-

jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/lob/PassThroughClob.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java

* /spring-jdbc-6-1-10-sources-

jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java

*

/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/SqlFunction.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java

* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.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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* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/package-info.java

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* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java

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- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java

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- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.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-6-1-10-sources-jar/org/springframework/jdbc/core/ParameterMapper.java

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jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java

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* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
*
/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/HsQlTableMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
*
/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/SqlOperation.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SQLExceptionCodes.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/SqlQuery.java
*

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/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/UncategorizedSQLException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/SqlCall.java
*

/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/BadSqlGrammarException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
*

/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ResultSetExtractor.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/SqlUpdate.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SqlResultSetResultSetExtractor.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
*

/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-6-1-10-sources-

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jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
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* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
*
/spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /spring-jdbc-6-1-10-sources-
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
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- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/DefaultJdbcClient.java
- *
- /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/ShardingKeyProvider.java
- * /spring-jdbc-6-1-10-sources-
- jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
- * /spring-jdbc-6-1-10-sources-
- jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
- * /spring-jdbc-6-1-10-sources-
- jar/org/springframework/jdbc/support/incrementer/MySQLIdentityColumnMaxValueIncrementer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
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- /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/RowCallbackHandler.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/JdbcAccessor.java
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- jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/DataClassRowMapper.java
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- /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/JdbcTransactionManager.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java

- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/ShardingKeyDataSourceAdapter.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
- *
- /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SqlValue.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/RowMapper.java
- *
- /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SqlArrayValue.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
- * /spring-jdbc-6-1-10-sources-
- jar/org/springframework/jdbc/core/namedparam/SimplePropertySqlParameterSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/SimplePropertyRowMapper.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/SQLWarningException.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
- *
- /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
- * /spring-jdbc-6-1-10-sources-
- jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
- * /spring-jdbc-6-1-10-sources-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java

1.326 spring-aop 6.1.10

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- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/TrueMethodMatcher.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/TrueClassFilter.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/StaticMethodMatcher.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AopNamespaceUtils.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AdvisorChainFactory.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AopConfigUtils.java
- * /spring-aop-6-1-10-sources-jar/org/aopalliance/intercept/ConstructorInvocation.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/MethodBeforeAdvice.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ProxyProcessorSupport.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
- * /spring-aop-6-1-10-sources-jar/org/aopalliance/intercept/MethodInterceptor.java
- * /spring-aop-6-1-10-sources-jar/org/aopalliance/aop/AspectException.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/TruePointcut.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/IntroductionInfoSupport.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/DynamicMethodMatcher.java

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- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AspectEntry.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/ComposablePointcut.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/LazyInitTargetSource.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/SingletonTargetSource.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
- * /spring-aop-6-1-10-sources-jar/org/aopalliance/intercept/ConstructorInterceptor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/TargetSource.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/Advisor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/scope/ScopedProxyBeanRegistrationAotProcessor.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/EmptyTargetSource.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/HotSwappableTargetSource.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/ClassFilters.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java

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* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/ClassFilter.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
*
/spring-aop-6-1-10-sources-jar/org/springframework/aop/support/RootClassFilter.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/MethodMatchers.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/MethodMatcher.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AopProxyUtils.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
*
/spring-aop-6-1-10-sources-
jar/org/springframework/aop/aspectj/annotation/AspectJBeanFactoryInitializationAotProcessor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
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jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
*
/spring-aop-6-1-10-sources-jar/org/springframework/aop/scope/ScopedProxyUtils.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AopProxy.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/framework/adaptor/AdvisorAdapterRegistrationManager.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
*
/spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ProxyFactory.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adaptor/DefaultAdvisorAdapterRegistry.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
* /spring-aop-6-1-10-sources-
jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
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* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
*
/spring-aop-6-1-10-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/ExpressionPointcut.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
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- jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/ControlFlowPointcut.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/CoroutinesUtils.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/AopUtils.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/Pointcuts.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorBeanRegistrationAotProcessor.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AdvisedSupport.java
- * /spring-aop-6-1-10-sources-
- jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/CglibAopProxy.java

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- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/RawTargetAccess.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/SpringProxy.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AopInfrastructureBean.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/IntroductionInterceptor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/AfterAdvice.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AdvisedSupportListener.java

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- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
- *
- /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/ProxyConfig.java
- * /spring-aop-6-1-10-sources-jar/org/aopalliance/intercept/Joinpoint.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/DynamicIntroductionAdvice.java

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 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/IntroductionAdvisor.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
 *
 /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AopProxyFactory.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/scope/ScopedObject.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/PoolingConfig.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/IntroductionInfo.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapters/AfterReturningAdviceAdapter.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/AopInvocationException.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapters/UnknownAdviceTypeException.java
 *
 /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/PointcutComponentDefinition.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapters/MethodBeforeAdviceAdapter.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapters/AdvisorAdapter.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/PointcutAdvisor.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/Pointcut.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/AfterReturningAdvice.java
 * /spring-aop-6-1-10-sources-jar/org/springframework/aop/target/dynamic/Refreshable.java
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- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/ProxyMethodInvocation.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/TargetClassAware.java
- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
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- /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java

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- * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapt/AfterReturningAdviceInterceptor.java
- *
 - /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AopNamespaceHandler.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AdvisorEntry.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/AopContext.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/AdviceEntry.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/Advised.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
 - *
 - /spring-aop-6-1-10-sources-jar/org/springframework/aop/config/PointcutEntry.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/adapt/MethodBeforeAdviceInterceptor.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/interceptor/DebugInterceptor.java
 - * /spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java

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jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /spring-aop-6-1-10-sources-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /spring-aop-6-1-10-sources-jar/org/aopalliance/aop/Advice.java
*
/spring-aop-6-1-10-sources-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /spring-aop-6-1-10-sources-jar/org/aopalliance/intercept/MethodInvocation.java
* /spring-aop-6-1-10-sources-jar/org/aopalliance/intercept/Invocation.java
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1.327 micrometer-observation 1.12.7

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- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/ObservationFilter.java
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- /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/annotation/package-info.java
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- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/contextpropagation/package-info.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/docs/ObservationDocumentation.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/transport/RequestReplySenderContext.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/SimpleObservation.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/docs/package-info.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/transport/RequestReplyReceiverContext.java
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- /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/ObservationView.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/package-info.java
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- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/transport/ReceiverContext.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/aop/ObservedAspectObservationDocumentation.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/ObservationPredicate.java
- *
- /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/transport/Propagator.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/NoopObservationConvention.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/transport/ResponseContext.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/NoopObservation.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/ObservationRegistry.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/ObservationTextPublisher.java
- * /micrometer-observation-1-12-7-sources-jar/io/micrometer/observation/GlobalObservationConvention.java
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- 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
- web-app_3_1.xsd
- web-common_3_1.xsd

- web-fragment_3_1.xsd
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- 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
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- web-app_3_0.xsd

- web-common_3_0.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
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
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- javaee_web_services_client_1_4.xsd
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- web-common_3_1.xsd
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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
- web-fragment_5_0.xsd
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*/spring-expression-6-1-10-sources-jar/org/springframework/expression/AccessException.java
*/spring-expression-6-1-10-sources-jar/org/springframework/expression/ParseException.java
*/spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/TypeConverter.java
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* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/standard/SpelExpression.java
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- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/common/CompositeStringExpression.java
- *
- /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/Indexer.java
- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/standard/Token.java
- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/standard/Tokenizer.java
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- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/support/ReflectionHelper.java
- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/CodeFlow.java
- * /spring-expression-6-1-10-sources-
- jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
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- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/ConstructorResolver.java
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```

Found in path(s):

```

* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/standard/TokenKind.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/EvaluationException.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/MethodFilter.java

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`/spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/InternalParseException.java`

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`/spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/AstUtils.java`

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Found in path(s):

```

* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/FloatLiteral.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpNE.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OperatorNot.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/NullLiteral.java
*
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpAnd.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/PropertyAccessor.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/Identifier.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/RealLiteral.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpEQ.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpOr.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/ValueRef.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/IntLiteral.java
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```

* /spring-expression-6-1-10-sources-jar/org/springframework/expression/ParserContext.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/Elvis.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpPlus.java
*
/spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/Literal.java
* /spring-expression-6-1-10-sources-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /spring-expression-6-1-10-sources-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpMinus.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/standard/SpelCompiler.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/TypeLocator.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ExpressionState.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
*
/spring-expression-6-1-10-sources-
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/ast/Assign.java
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- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/SpelNode.java
- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/Operation.java
- * /spring-expression-6-1-10-sources-jar/org/springframework/expression/spel/support/BooleanTypedValue.java

1.331 netty-resolver-dns 4.1.111.Final

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- * /netty-resolver-dns-4-1-111-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml

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* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsNameResolver.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/package-info.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsServerAddresses.java
*
/netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsResolveContext.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
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* /netty-resolver-dns-4-1-111-final-sources-jar/META-INF/native-image/io.netty/netty-resolver-dns/native-
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* /netty-resolver-dns-4-1-111-final-sources-
jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java

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* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
*
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
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* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/ThreadLocalNameServerAddressStream.java
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* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
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 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
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 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsCacheEntry.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
 *
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
 * /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
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* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
*
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/Cache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java

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* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/InflightNameResolver.java
*
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java
* /netty-resolver-dns-4-1-111-final-sources-jar/io/netty/resolver/dns/DnsCache.java

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1.332 netty-codec-socks 4.1.111.Final

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```

Found in path(s):

```
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /netty-codec-socks-4-1-111-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
*
/netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /netty-codec-socks-4-1-111-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /netty-codec-socks-4-1-111-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
*
/netty-codec-socks-4-1-111-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /netty-codec-socks-4-1-111-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
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- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
- *
- /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
- *
- /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java

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- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
- *
- /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
- *
- /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
- *
- /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
- *
- /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
- * /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

```
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/package-info.java
*
/netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
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```
* /netty-codec-socks-4-1-111-final-sources-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /netty-codec-socks-4-1-111-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
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1.333 netty-transport-classes-epoll

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* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
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* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
*
/netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
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* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
*

```

```

/netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/package-info.java
* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java

```

* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.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-4-1-111-final-sources-

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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.

```
*/  
/**  
 * Set the {@code TCP_QUICKACK} option on the socket.  
 * See TCP\_QUICKACK  
 * for more details.  
*/
```

Found in path(s):

* /netty-transport-classes-epoll-4-1-111-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

1.334 netty-transport 4.1.111.Final

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 * under the License.  
*/  
/**  
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 * its {@link ChannelPipeline}.  
 *  
 * 

### Sub-types

  
 * 

{@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> {
*
*     <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
 * the JCIP annotations.

*

* <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-4-1-111-final-sources-jar/io/netty/bootstrap/ChannelInitializerExtensions.java

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 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
 *
 /netty-transport-4-1-111-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/oio/package-info.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelInitializer.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelConfig.java
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 *

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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
*
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AbstractServerChannel.java
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/netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/nio/NioTask.java

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```

*
/netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/FailedChannelFuture.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/package-info.java
*

/netty-transport-4-1-111-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
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/netty-transport-4-1-111-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/local/package-info.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
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- * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/nio/NioDomainSocketUtil.java
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Found in path(s):

- * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
- * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
- * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/package-info.java


```
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
*
/netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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```
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AbstractEventLoop.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelFactory.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
*
/netty-transport-4-1-111-final-sources-jar/io/netty/channel/PendingWriteQueue.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelId.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AddressedEnvelope.java
*
/netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
*
/netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
*
/netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
*
* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/SelectStrategy.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
 *
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/internal/package-info.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/PendingBytesTracker.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
 * /netty-transport-4-1-111-final-sources-jar/io/netty/bootstrap/FailedChannel.java

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* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/nio/SelectorProviderUtil.java

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```

* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java
* /netty-transport-4-1-111-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

```

1.335 netty-handler-proxy 4.1.111.Final

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Found in path(s):

```

* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/package-info.java
* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
*
* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /netty-handler-proxy-4-1-111-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

```

1.336 netty-handler 4.1.111.Final

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```

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java

```

```
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java

*

/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/IPPacket.java
- *

- /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/package-info.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/pcap/TCPpacket.java

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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/flow/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SniHandler.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java

- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslUtils.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
- *
- /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/package-info.java
- *
- /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslProvider.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
- *
- /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/PemReader.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
- *
- /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
- * /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java

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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/Conscrypt.java

*

/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java

*

/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java

* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/traffic/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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/netty-handler-4-1-111-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
*
/netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

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/netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/timeout/package-info.java
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* /netty-handler-4-1-111-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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Found in path(s):

```

* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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Found in path(s):

```

* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/InetNameResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
*
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/AddressResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

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```

Found in path(s):

```

* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/package-info.java
*
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /netty-resolver-4-1-111-final-sources-jar/io/netty/resolver/NameResolver.java

```

1.338 netty-codec-http 4.1.111.Final

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```

Found in path(s):

```

* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java

```

```

*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java

```

```

* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakeException.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java
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* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java

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```
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java
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- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java

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- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
- *
- /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValues.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.java
- *
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java

```

* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
ava
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
*
/netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
*
/netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java

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* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
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Found in path(s):

```

* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
*
/netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /netty-codec-http-4-1-111-final-sources-

```

```

jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
*
/netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
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- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java
- * /netty-codec-http-4-1-111-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
- *
- /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
- * /netty-codec-http-4-1-111-final-sources-
- jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/package-info.java
- * /netty-codec-http-4-1-111-final-sources-
- jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
- * /netty-codec-http-4-1-111-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
- *
- /netty-codec-http-4-1-111-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpResponse.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpClientCodec.java
- *
- /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java
- * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpObjectEncoder.java

* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpContent.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HTTPHeaderDateFormat.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java
 *
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 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpRequestEncoder.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
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 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
 *
 /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaders.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
 *
 /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/Attribute.java
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 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpResponseStatus.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
 *
 /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
 * /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java

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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpServerCodec.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/package-info.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/Cookie.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpResponseEncoder.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpResponse.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpObject.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpVersion.java
* /netty-codec-http-4-1-111-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java

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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValidationUtil.java
*
/netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/TooLongHttpContentException.java
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeadersFactory.java
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java

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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java

* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java

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* /netty-codec-http-4-1-111-final-sources-jar/io/netty/handler/codec/http/CompressionEncoderFactory.java

1.339 netty-transport-native-unix-common

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Found in path(s):

```
* /netty-transport-native-unix-common-4-1-111-final-sources-
jar/io/netty/channel/unix/GenericUnixChannelOption.java
* /netty-transport-native-unix-common-4-1-111-final-sources-
jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /netty-transport-native-unix-common-4-1-111-final-sources-
jar/io/netty/channel/unix/RawUnixChannelOption.java
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* /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix.c

* /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix.h

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* /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_buffer.h

* /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_buffer.c

* /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java

*

/* /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/Buffer.java

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- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_util.c
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/Limits.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
- *
- /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_limits.h
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_util.h
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_limits.c

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- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

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- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/Unix.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/IovArray.java
- *
- /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/package-info.java

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- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_socket.c
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- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/UnixChannel.java
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- /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_socket.h
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_errors.c
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/Socket.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/Errors.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-
- jar/io/netty/channel/unix/DomainSocketReadMode.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
- * /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_filedescriptor.c
- *

/netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-transport-native-unix-common-4-1-111-final-sources-jar/netty_unix_errors.h
* /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
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* /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java
* /netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/DomainDatagramChannel.java
*
/netty-transport-native-unix-common-4-1-111-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
- *
- /*netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/EncoderException.java
- * /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

```

*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/CodecException.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
*

```

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/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-111-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
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* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

```

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```

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-codec-4-1-111-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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*/
/*
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* https://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
*
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
  Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

```

```

Found in path(s):
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java
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```

Found in path(s):

```

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
*
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
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```

Found in path(s):

```

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java

```



```

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
*
/netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/SnappyOptions.java

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/EncoderUtil.java

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* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ZstdDecoder.java

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Found in path(s):

```
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/Headers.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
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```
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/ValueConverter.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
*/

```

Found in path(s):

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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*/
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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>.
*/

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* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/base64/Base64.java
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```

Found in path(s):

```

* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
*
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /netty-codec-4-1-111-final-sources-jar/io/netty/handler/codec/CodecOutputList.java

```


1.341 netty-codec-dns 4.1.111.Final

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```
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
*
/netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/package-info.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
*
/netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
```

```
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
*
/netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
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```
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java
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* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java

* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java

*

/netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java

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* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java

* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java

*

/netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java

* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java

* /netty-codec-dns-4-1-111-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java

1.342 importlib-metadata 8.0.0

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1.343 bridgeutils 1.36.1-r19

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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
- 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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- 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_client_1_2.xsd
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- 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
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- 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
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- 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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1.351 commons-lang3 3.13.0

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1.355 libcrypto3 3.1.6-r2

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Ty Coon, President of Vice
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That's all there is to it!
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@page

@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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it under the terms of the GNU General Public License as published by
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when it starts in an interactive mode:

@smallexample
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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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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
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'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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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a

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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.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) 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.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will

operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined

with any other library

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1.357 utmps-libs 0.1.2.2-r0

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1.358 ssl-client 1.36.1-r19

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```
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1.359 libssl3 3.1.6-r2

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```

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```
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at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.360 spring-jdbc 6.1.10

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1.363 spring-context 6.1.10

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```
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/CacheManager.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/StaticApplicationContext.java
*
/spring-context-6-1-10-sources-1-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/MessageSource.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /spring-context-6-1-10-sources-1-
jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Import.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
```

* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiTemplateEditor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/BasicOperation.java

```
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/PropertySources.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/annotation/Validated.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/AnnotationFormatterFactory.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java
*
/spring-context-6-1-10-sources-1-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/JmxException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/Formatter.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/SchedulingException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
```

```

* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiLookupFailureException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/Phased.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/NoSuchMessageException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/naming/SelfNaming.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/HierarchicalMessageSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/EnableMBeanExport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/config/ContextNamespaceHandler.java
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```

* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/EventListenerFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/support/StandardScriptEvalException.java

```

```

* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/scripting/ScriptEvaluator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ComponentScans.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ImportResource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Role.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
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```

* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Condition.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/aot/AbstractAotProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/CronTrigger.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/DateFormatter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/method/ParameterValidationResult.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConfigurationClassEnhancer.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
*

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/spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/support/DefaultScheduledTaskObservationConvention.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/ContextClosedEvent.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/GenericApplicationListenerDelegate.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/support/GenericApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/BitsCronField.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/Scheduled.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/aot/ReflectiveProcessorBeanFactoryInitializationAotProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/GenericApplicationListener.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConfigurationClass.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/AbstractErrors.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Primary.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/validation/method/ParameterErrors.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/ContextStoppedEvent.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/DataBinder.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /spring-context-6-1-10-sources-1-

```

```

jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/aot/KotlinReflectionBeanRegistrationAotProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/concurrent/SimpleAsyncTaskScheduler.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/TaskScheduler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ExecutorLifecycleDelegate.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/CronExpression.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/validation/beanvalidation/MethodValidationAdapter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/AbstractApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/QuartzCronField.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/CronField.java
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```

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* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java

```

* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
*

/spring-context-6-1-10-sources-1-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/MapBindingResult.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationStartupAware.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ImportSelector.java
*

/spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConditionContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/MessageCodeFormatter.java
*

/spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/EventExpressionEvaluator.java

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- /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/SimpleThreadScope.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/ObjectError.java
- * /spring-context-6-1-10-sources-1-
- jar/org/springframework/context/aot/ApplicationContextInitializationCodeGenerator.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/FixedRateTask.java
- * /spring-context-6-1-10-sources-1-
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/ApplicationListenerDetector.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/CompositeCronField.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/TaskUtils.java
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- /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/JmxUtils.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/SimpleTriggerContext.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/i18n/LocaleContextHolder.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/stereotype/Component.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/ValidationUtils.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/DateTimeContext.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/ui/ModelMap.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/Errors.java
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 * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/SmartValidator.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Lazy.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
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 * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/BeanMethod.java
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 * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/method/DefaultMethodValidationResult.java
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 /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/MessageSourceSupport.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/ui/ConcurrentModel.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/SimpleErrors.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
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 * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/ScheduledTaskObservationDocumentation.java
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 * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/BindingResultUtils.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
 * /spring-context-6-1-10-sources-1-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java


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* /spring-context-6-1-10-sources-1-jar/org/springframework/stereotype/Service.java
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jar/org/springframework/context/annotation/ImportAwareAotBeanPostProcessor.java
* /spring-context-6-1-10-sources-1-
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* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/annotation/ValidationAnnotationUtils.java
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/spring-context-6-1-10-sources-1-jar/org/springframework/context/event/EventListenerMethodProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/ApplicationObjectSupport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/stereotype/Repository.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/method/EmptyMethodValidationResult.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/support/SimpleValueWrapper.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/expression/CachedExpressionEvaluator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/index/CandidateComponentsIndex.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/BindException.java
* /spring-context-6-1-10-sources-1-
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* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/Validator.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheResolver.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/DefaultBindingErrorProcessor.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/MessageSourceAccessor.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/DependsOn.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ImportRegistry.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/BeanFactoryResolver.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiObjectLocator.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiTemplate.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/validation/AbstractPropertyBindingResult.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/MonthFormatter.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/config/LangNamespaceUtils.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/EmbeddedValueResolverAware.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
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- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Scope.java
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/spring-context-6-1-10-sources-1-jar/org/springframework/format/FormatterRegistry.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/ScriptCompilationException.java
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Found in path(s):

```

* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/ModelExtensions.kt
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Found in path(s):

```
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/EnableAsync.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
*
/spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/CacheExtensions.kt
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/expression/MapAccessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/DateTimeFormatterUtils.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/support/ResourceScriptSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ResourceLoaderAware.java
```

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* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/CacheManagerExtensions.kt
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/JsR330ScopeMetadataResolver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/annotation/DateTimeFormat.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/config/CacheAdviceParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheableOperation.java
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Found in path(s):

```

* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/format/datetime/standard/JsR310DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/Async.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/aot/BeanFactoryInitializationAotContributions.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/Model.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/i18n/SimpleLocaleContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/context/support/DelegatingThemeSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java

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*
/spring-context-6-1-10-sources-1-
jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/context/ThemeSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/aot/AotApplicationContextInitializer.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/context/support/SimpleTheme.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/aot/RuntimeHintsBeanFactoryInitializationAotProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/ScheduledTask.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/Caching.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/context/HierarchicalThemeSource.java
*
/spring-context-6-1-10-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/CacheEvict.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/event/EventListener.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/annotation/CachingConfigurerSupport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/MessageSourceAware.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/TypeFilterUtils.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/aot/CglibClassHandler.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/LoggingCacheErrorHandler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/ExtendedModelMap.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/ui/context/Theme.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/BindingResult.java

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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/aot/ContextAotProcessor.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperation.java
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```

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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/i18n/LocaleContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Description.java
*
/spring-context-6-1-10-sources-1-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/annotation/Schedules.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java

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*
/spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/Printer.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/support/CompositeCacheManager.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/Parser.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/YearMonthFormatter.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>

```

- * as a type-level annotation on any class directly or indirectly annotated with
- * {@code @Component}, including {@link Configuration @Configuration} classes
- * as a meta-annotation, for the purpose of composing custom stereotype
- * annotations
- * as a method-level annotation on any {@link Bean @Bean} method

*

* <p>If a {@code @Configuration} class is marked with {@code @Conditional},

* all of the {@code @Bean} methods, {@link Import @Import} annotations, and

* {@link ComponentScan @ComponentScan} annotations associated with that

* class will be subject to the conditions.

*

* <p>NOTE: Inheritance of {@code @Conditional} annotations

* is not supported; any conditions from superclasses or from overridden

* methods will not be considered. In order to enforce these semantics,

* {@code @Conditional} itself is not declared as

* {@link java.lang.annotation.Inherited @Inherited}; furthermore, any

* custom composed annotation that is meta-annotated with

* {@code @Conditional} must not be declared as {@code @Inherited}.

*

* @author Phillip Webb

* @author Sam Brannen

* @since 4.0

* @see Condition

*/

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* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/Conditional.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
- */

Found in path(s):

- * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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- * /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/Task.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/support/StaticScriptSource.java
- *
 - */spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/stereotype/Indexed.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/cache/config/CacheNamespaceHandler.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
- * /spring-context-6-1-10-sources-1-jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java

```

* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
*
/spring-context-6-1-10-sources-1-
jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/MessageSourceResolvable.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/NotificationListenerBean.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/number/CurrencyStyleFormatter.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /spring-context-6-1-10-sources-1-
jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/validation/DefaultMessageCodesResolver.java
*
/spring-context-6-1-10-sources-1-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
* /spring-context-6-1-10-sources-1-jar/org/springframework/jndi/JndiAccessor.java

```

1.364 spring-tx 6.1.10

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 */
```

Found in path(s):

```
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java
```

```

* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/InternalResourceView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/HttpResource.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/Param.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
* /spring-webmvc-6-1-10-sources-1-
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsView.java
* /spring-webmvc-6-1-10-sources-1-
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* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewResponseBodyAdvice.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/JstlView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractRssFeedView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.jav
a
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.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
*/

```

Found in path(s):

```

* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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```

Found in path(s):

```

* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceTransformer.java
* /spring-webmvc-6-1-10-sources-1-

```

jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/ArgumentAware.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/VersionStrategy.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
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Found in path(s):

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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/Controller.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/SimpleMappingExceptionHandlerResolver.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/SelectedValueComparator.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RequestPredicate.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/HandlerAdapter.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/ViewResolversBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/LastModified.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyAdviceChain.java
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/TagWriter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/ChangePathPatternParserVisitor.java
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* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RouterFunctions.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RouterFunctionDsl.kt
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/ServerResponse.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/HandlerInterceptor.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RequestPredicates.java

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*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/DefaultServerRequest.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/support/HandlerFunctionAdapter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RouterFunctionBuilder.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/PredicateResourceLookupFunction.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
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```

* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/PathPatternMatchableHandlerMapping.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/script/ScriptTemplateView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java

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* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletModelAttributeMethodProcessor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/PathResourceLookupFunction.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/RedirectView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/HandlerFilterFunction.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletCookieValueMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/OptionWriter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/LabelTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/DefaultServerResponseBuilder.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/BindTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestAttributeMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/PathResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/SelectTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/ButtonTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/FrameworkServlet.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/DefaultServerRequestBuilder.java

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* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/MessageTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/FlashMap.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/InputTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionHandlerResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistry.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/DefaultAsyncServerResponse.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/AbstractHandlerMethodExceptionHandlerResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionHandlerResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/OptionsTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/ErrorHandlerServerResponse.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/DispatcherServlet.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionHandlerResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceUrlEncodingFilter.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/xml/MarshallingView.java
*

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/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/AbstractMediaTypeExpression.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/JstlUtils.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/UrlTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/ToStringVisitor.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/resource/NoResourceFoundException.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/VersionResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/ServerRequest.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/ParameterizableViewController.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.java
java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitterReturnValueHandler.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/AbstractServerResponse.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMapMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/ContentNegotiatingViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/UrlBasedViewResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyMethodProcessor.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/ModelAndView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/PathPatternsRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /spring-webmvc-6-1-10-sources-1-

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jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/RequestContext.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/EncodedResourceResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/SseServerResponse.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/SseEmitter.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/DefaultEntityResponseBuilder.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/RequestMethodsRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/OptionTag.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/FormTag.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
- */

Found in path(s):

* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ContinuationHandlerMethodArgumentResolver.java
 * /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
 * /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
 *
 /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/ViewResolver.java
 * /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
 * /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/AsyncServerResponse.java
 * /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
 * /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/annotation/CorsRegistry.java

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* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.j
ava
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/PrincipalMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/BeanNameViewResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/XmlViewResolver.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/HandlerMapping.java
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jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java

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jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/LocaleContextResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
```

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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/LocaleResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/AbstractView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/ParamAware.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/BindStatus.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/ThemeResolver.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/ThemeTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
* /spring-webmvc-6-1-10-sources-1-

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jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/FlashMapManager.java
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/View.java  
*  
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/ValueFormatter.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/HandlerExceptionResolver.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java  
*  
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/ParamTag.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/script/RenderingContext.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/TransformedResource.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/EditorAwareTag.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/ArgumentTag.java  
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
```

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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/TransformTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/HttpServletBean.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/AbstractNameValueExpression.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/ScriptTemplateConfigurerBeanDefinitionParser.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/EvalTag.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/AbstractController.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/NestedPathTag.java
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jar/org/springframework/web/servlet/mvc/method/annotation/SessionAttributeMethodArgumentResolver.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/ServerResponseExtensions.kt
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/ServerRequestExtensions.kt
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/HandlerFunction.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/EntityResponse.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java
a
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RenderingResponse.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java
*
/spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/function/RouterFunction.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /spring-webmvc-6-1-10-sources-1-
jar/org/springframework/web/servlet/mvc/condition/AbstractRequestCondition.java
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* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
*
/spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java
* /spring-webmvc-6-1-10-sources-1-jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java

1.367 spring-aop 6.1.10

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1.370 jinja 3.1.2

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1.371 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

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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
- C. Titus Brown
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- 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

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

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1.373 importlib-resources 6.4.0

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1.374 typing-extensions 4.12.2

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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 <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			

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1.375 importlib-metadata 4.11.1

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1.376 cglib 6.1.10

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1.381 jackson-datatype-jdk8 2.15.4

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1.384 spring-boot 3.2.7

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Spring Boot 3.2.7

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1.385 byte-buddy 1.14.17

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1.389 micrometer-observation 1.12.7

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1.390 jackson-module-parameter-names

2.15.4

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1.391 more-itertools 9.1.0

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1.392 simpleclient_servlet_common 0.16.0

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1.393 error_prone_annotations 2.23.0

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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/LICENSE-2.0.txt"

Bundle-ManifestVersion: 2

Bundle-Name: error-prone annotations

Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annotations",connection="scm:git:https://github.com/google/error-prone.git/error_prone_annotations",developer-connection="scm:git:git@github.com:google/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.model.element";version="2.23.0",com.google.errorprone.annotations.concurrent;version="2.23.0"

Import-Package: javax.lang.model.element

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

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INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.394 simpleclient-servlet 0.16.0

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1.395 idna 15.0.0

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1.396 sh 1.14.3

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1.397 activation-api 2.1.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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Bit Twiddling Hacks

By Sean Eron Anderson
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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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lz4net

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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** BYTEmark (tm)

** BYTE Magazine's Native Mode benchmarks

** Rick Grehan, BYTE Magazine

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** Create:

** Revision: 3/95

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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<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" />
```

```
</ItemGroup>
```

```
</Project>
```

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1.405 zstd 1.5.5

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1.406 more-itertools 8.8.0

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1.407 pyproject-hooks 1.0.0

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1.408 truststore 0.8.0

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1.409 cachecontrol 0.13.1

1.409.1 Available under license :

on:
release:
types:
- published

name: release

jobs:

```

pypi:
  name: upload release to PyPI
  runs-on: ubuntu-latest

permissions:
  # Used to authenticate to PyPI via OIDC.
  # Used to sign the release's artifacts with sigstore-python.
  id-token: write

  # Used to attach signing artifacts to the published release.
  contents: write

steps:
  - uses: actions/checkout@v3

  - uses: actions/setup-python@v4
    with:
      python-version: ">= 3.6"

  - name: deps
    run: python -m pip install -U build

  - name: build
    run: python -m build

  - name: publish
    uses: pypa/gh-action-pypi-publish@release/v1

  - name: sign
    uses: sigstore/gh-action-sigstore-python@v1.2.3
    with:
      inputs: ./dist/*.tar.gz ./dist/*.whl
      release-signing-artifacts: true
[build-system]
requires = ["flit_core >=3.2,<4"]
build-backend = "flit_core.buildapi"

[tool.flit.module]
name = "cachecontrol"

[tool.flit.sdist]
include = ["tests/"]

[project]
name = "CacheControl"
dynamic = ["version"]
description = "httplib2 caching for requests"
readme = "README.rst"

```

```

license = { file = "LICENSE.txt" }
authors = [
  { name = "Eric Larson", email = "ericlarson@ionrock.com" },
  { name = "Frost Ming", email = "me@frostming.com" },
  { name = "William Woodruff", email = "william@yossarian.net" },
]
classifiers = [
  "Development Status :: 4 - Beta",
  "Environment :: Web Environment",
  "License :: OSI Approved :: Apache Software License",
  "Operating System :: OS Independent",
  "Programming Language :: Python :: 3.6",
  "Programming Language :: Python :: 3.7",
  "Programming Language :: Python :: 3.8",
  "Programming Language :: Python :: 3.9",
  "Programming Language :: Python :: 3.10",
  "Programming Language :: Python :: 3.11",
  "Topic
:: Internet :: WWW/HTTP",
]
keywords = ["requests", "http", "caching", "web"]
dependencies = ["requests >= 2.16.0", "msgpack >= 0.5.2"]
requires-python = ">=3.7"

```

```

[project.urls]
Homepage = "https://pypi.org/project/CacheControl/"
Issues = "https://github.com/psf/cachecontrol/issues"
Source = "https://github.com/psf/cachecontrol"

```

```

[project.optional-dependencies]
# End-user extras.
filecache = ["filelock >= 3.8.0"]
redis = ["redis>=2.10.5"]

```

```

# Development extras.
dev = [
  "CacheControl[filecache,redis]",
  "build",
  "mypy",
  "tox",
  "pytest-cov",
  "pytest",
  "cherryypy",
  "sphinx",
  "black",
  "types-redis",
  "types-requests",
]

```

```
[project.scripts]
doesitcache = "cachecontrol._cmd:main"

[tool.mypy]
show_error_codes = true
strict = true
enable_error_code = ["ignore-without-code", "redundant-expr", "truthy-bool"]

[[tool.mypy.overrides]]
module = "msgpack"
ignore_missing_imports = true

[tool.pytest.ini_options]
norecursedirs = ["bin", "lib", "include", "build"]
# Contributing to CacheControl
```

Thank you for your interest in contributing to `CacheControl`!

The information below will help you set up a local development environment and perform common development tasks.

Requirements

`CacheControl`'s only external development requirement is Python 3.7 or newer.

Development steps

First, clone this repository:

```
```bash
git clone https://github.com/psf/cachecontrol
cd cachecontrol
```
```

Then, bootstrap your local development environment:

```
```bash
make bootstrap
OPTIONAL: enter the new environment, if you'd like to run things directly
source .venv/bin/activate
```
```

Once you've run `make bootstrap`, you can run the other `make` targets to perform particular tasks.

Any changes you make to the `cachecontrol` source tree will take effect immediately in the development environment.

Linting

You can run the current formatters with:

```
```bash
make format
```
```

Testing

You can run the unit tests locally with:

```
```bash
run the test suite in
the current environment
make test

OPTIONAL: use `tox` to fan out across multiple interpreters
make test-all
```
```

Documentation

You can build the Sphinx-based documentation with:

```
```bash
puts the generated HTML in docs/_build/html/
make doc
```
```

Releasing

****NOTE**:** If you're a non-maintaining contributor, you don't need the steps here! They're documented for completeness and for onboarding future maintainers.

Releases of `CacheControl` are managed by GitHub Actions.

To perform a release:

1. Update `CacheControl`'s `\_\_version\_\_` attribute. It can be found under `cachecontrol/\_\_init\_\_.py`.
1. Create a new tag corresponding to your new version, with a `v` prefix. For example:

```
```bash
IMPORTANT: don't forget the `v` prefix!
git tag v1.2.3
```

---

1. Push your changes to `master` and to the new remote tag.

1. Create, save, and publish a GitHub release for your new tag, including any `CHANGELOG` entries.

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---

name: CI

on:

push:

branches: ["master"]

pull\_request:

branches: ["master"]

workflow\_dispatch:

jobs:

tests:

name: "Python \${ matrix.python-version } \${ matrix.os }"

runs-on: "\${ matrix.os }"

strategy:

fail-fast: false

matrix:

python-version: ["3.7", "3.8", "3.9", "3.10", "3.11"]

os: ["macos-latest", "windows-latest", "ubuntu-latest"]

steps:

- uses: "actions/checkout@v3"

- uses: "actions/setup-python@v4"

with:

python-version: "\${ matrix.python-version }"

- name: "Install dependencies"

run: |

python -VV



```
python -m site
python -m pip install --upgrade pip setuptools wheel
python -m pip install --upgrade virtualenv tox tox-gh-actions
```

```
- name: "Run tox targets for ${ matrix.python-version }"
 run: "python -m tox"
```

# 1.410 json-java 0.0.20131108.vaadin1

## 1.410.1 Available under license :

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/\*

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\*/

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\* /json-20131018-sources-1-jar/org/json/zip/Decompressor.java

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Found in path(s):

- \* /json-20131018-sources-1-jar/org/json/zip/BitOutputStream.java
- \* /json-20131018-sources-1-jar/org/json/zip/Huff.java
- \* /json-20131018-sources-1-jar/org/json/Kim.java
- \* /json-20131018-sources-1-jar/org/json/zip/PostMortem.java
- \* /json-20131018-sources-1-jar/org/json/zip/TrieKeep.java
- \* /json-20131018-sources-1-jar/org/json/zip/Keep.java
- \* /json-20131018-sources-1-jar/org/json/zip/Compressor.java
- \* /json-20131018-sources-1-jar/org/json/zip/JSONzip.java
- \* /json-20131018-sources-1-jar/org/json/zip/MapKeep.java
- \* /json-20131018-sources-1-jar/org/json/zip/BitInputStream.java

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- \* /json-20131018-sources-1-jar/org/json/HTTP.java
- \* /json-20131018-sources-1-jar/org/json/CDL.java
- \* /json-20131018-sources-1-jar/org/json/XML.java
- \* /json-20131018-sources-1-jar/org/json/Property.java
- \* /json-20131018-sources-1-jar/org/json/XMLTokener.java
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## 1.411 spring-boot-actuator-autoconfigure

### 3.2.7

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